Monday, January 8th, 2018
3:00pm to 4:00pm

LCOG LANE COUNCIL OF GOVERNMENTS

An Enterprise, Sustainable, Scalable and Enduring Multi-Jurisdictional GIS Strategic Plan

A Nationally Recognized and Award Winning Model of Interagency Cooperation and GIS Achievement

GEOGRAPHIC TECHNOLOGIES GROUP®

esri Partner Network Gold

Esri Partner Conference 2017 Award Winner
Best Citizen Engagement

URISA 2016 Award Winner

ESRI Special Achievement In GIS Winner

ArcGIS Online Specialty

ArcGIS for Local Government Specialty

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	• Phase II: Define Future Conditions	
	• Phase III: Establish Governance	
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F.	Three Phases and Seven Steps	5 min
G.	Specific LCOG Questions	
	• Methodology (A Seven Keys Philosophy)	5 min
	• Key Staff	5 min
	• Experience with Regional Partnership and Equitable Contributions	5 min
	• A Wider Constituency	5 min
	• Trends in Technology and Software for integrated and Consolidated Services	5 min
	• Funding Models for Cooperative Partnership	5 min
H.	Building High-Performance Organizations (HPO)	2 min
I.	Why Should LCOG Select Geographic Technologies Group?	3 min
		60 minutes

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GTG STRATEGIC PLANNING // GISPLAN.COM

600+ Satisfied Clients

20 Years In Business

11+ National Awards

STRATEGIC

Our strategic GIS planning philosophy includes a methodology that is deliberate, considered, intentional, and tactical, supported by well-calculated planning and decision-making. Strategy means examining the big picture—keeping long-term goals and objectives in mind while carefully analyzing the actions and initiatives required to reach those goals. It can include a vision, goals, and objectives supported by Key Performance Indicators (KPI) and GIS Outcomes.

ENTERPRISE

Our team plans, designs and implements GIS solutions throughout entire organizations. We pride ourselves in our innovative, creative and original uses of GIS across all departments. A true enterprise GIS encompasses the willingness to undertake a significant project or task especially if it is complicated, difficult, or risky. It requires initiative and deliberate effort to reach an intended goal. Enterprise is associated with boldness, resourcefulness, and energy.

SUSTAINABLE

Our team understands GIS sustainability as a solution that supports the weight of something, providing for its needs, and maintaining and prolonging it—to keep something viable. It means to progress or continue something: to nourish it into long-term fruition. Sustainability requires intentionality, support, and maintenance. Our team develops GIS plans and implements enterprise solutions that are sustainable.

SCALABLE

A scalable GIS means being flexible: to be able to be used in a many different ways, including intranet, internet, desktop, and mobile GIS. Scalability also involves customization—to be able to be upgraded, expounded, or simplified to fulfill a task. Scalability revolves around accommodation and cooperation to reach a goal. Our enterprise-wide, sustainable solutions are scalable to all needs of government.

ENDURING

An enduring GIS solution is long-lasting, permanent, and withstanding. To endure involves working at something diligently, sustainably, and meticulously to produce lasting outcomes, that remain constant and stable for a long period of time. Our strategic plans embrace every aspect of GIS management and technology – making our roadmaps enduring, stable, and lasting. Enduring GIS solutions focus on tried and tested long-term resilient strategies for GIS implementation, governance, data and databases, and procedures.

- Six Pillars of Sustainability
- 7 Keys to Success
- Training, Education and Knowledge Transfer
- GIS Outcomes
- Online Questionnaire
- GIS Technology Seminar
- Departmental Interviews
- Citizen Engagement
- GIS Benchmarking
- Key Performance Indicators
- Optimum Governance Models
- Consensus Building
- Return on Investment (ROI) Analysis
- Vision, Goals, and Objectives
- Best Business Practices

WHO WE SERVE

Towns, Cities, and Counties

PUBLIC SAFETY PUBLIC WORKS AND UTILITIES LAND MANAGEMENT NATURAL RESOURCES PUBLIC ADMINISTRATION
PUBLIC SERVICES TELECOMMUNICATIONS

We Serve All Local Government Departments

We take pride in being an award-winning GIS company that provides full-service enterprise GIS solutions and software for local government. GIS for local government is what we do.

Executive Management

Transportation

Emergency Management and EOC

Police Department

Tree Management and Arborist

Parks and Recreation

Environmental and Conservation

Legal Department

Planning and Zoning

Housing Department

Water, Sewer, and Stormwater

Engineering

Public Information Officer

Sheriff Department

Building and Inspections

Code Enforcement

Economic Development

Information Technology

Elections

Community Development

Telecommunications

Electric

Tax Assessors

Fire Department

Cooperative Extension

Libraries

Schools

Public Health

Social Services

Finance Department

AWARD WINNING COMPANY

Strategic Planning Client Map:
Serving 600+ clients across North America

City of Nanaimo, BC
City of Vancouver, WA
Lane Council of Governments, OR
City of Medford, OR
Town of Windsor, CA
City of Roseville, CA
City of Simi Valley, CA
City of Concord, CA
City of Berkeley, CA
San Mateo County, CA
City of Sunnyvale, CA
San Luis Obispo, CA
City of West Hollywood, CA
City of Pasadena, CA
Orange County, CA
Yuma County, AZ
City of Unalaska, AK
Campbell County, WY
City of Rio Rancho, NM
City of Missouri City, TX
City of Eagan, MN
City of Edina, MN
County of Brant, ON
City of South Bend, IN
City of Louisville, KY
City of Columbus Consolidated Government, GA
City of Mississauga, ON
City of Guelph, ON
City of Providence, RI
City of Virginia Beach, VA
City off Wilmington ,NC
Richland County, SC
City of Goose Creek, SC
Athens-Clarke County
City of Roswell, GA
Gwinnett County, GA
City of Boynton Beach, FL
Town of Davie, FL

GIS AWARDS

- Esri SAG Awards
- Esri Best Citizen Engagement
- URISA Best Web GIS
- URISA Best Public Sector GIS

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LANE COUNCIL OF GOVERNMENTS

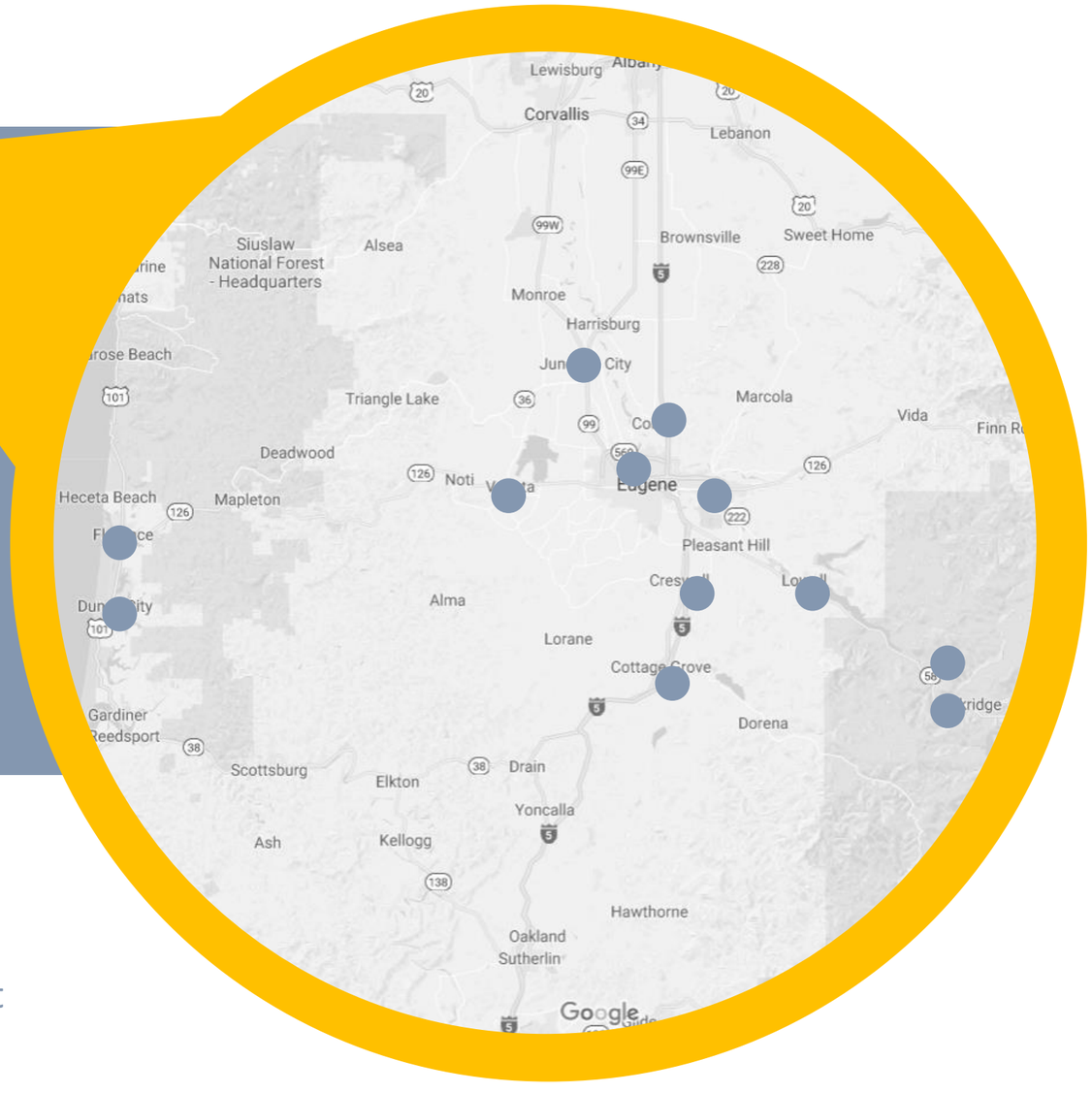
Members

6 School Districts

- School District 19 (Springfield)
- School District 4J (Eugene)
- School District 40 (Creswell)
- School District 45J (South Lane)
- School District 52 (Bethel)
- School District 68 (McKenzie)
- Education, College, and Libraries:
  - Siuslaw Library District
  - Fern Ridge Library District
  - Lane Library District
  - Lane Community College
  - Lane Education Service District

12 Cities

- City of Coburg
- City of Cottage Grove
- City of Creswell
- City of Dunes City
- City of Eugene
- City of Florence
- City of Junction City
- City of Lowell
- City of Oakridge
- City of Springfield
- City of Veneta
- City of Westfir



Others

- Emerald People's Utility District
- Eugene Water & Electric Board
- Heceta Water People's Utility District
- Junction City RFPD
- Lane County
- Lane Transit District
- Port of Siuslaw
- River Road Park & Recreation
- Siuslaw Valley Fire & Rescue
- Western Lane Ambulance District
- Willamalane Park & Recreation District

A NATIONALLY RECOGNIZED MODEL OF INTERAGENCY COOPERATION AND GIS ACHIEVEMENT

LANE COUNCIL OF GOVERNMENTS

VOLUNTARY: A Voluntary Association of local governments in Lane County, Oregon.
REGIONAL: A regional planning, coordination, program-development, and service-delivery organization. It provides and facilitates efficient and effective government services through cooperative planning, program development, analysis, and service delivery.
MULTI-JURISDICTIONAL: Helps area cities, counties, educational districts, and special-purpose districts reach their common goals.
PUBLIC SERVICE: A mission to coordinate and provide high quality public services in Lane County.
33 MEMBERS: Serves 33 members, including Lane County
- 12 cities within the county:
- Education, public utility, and other special districts.

DEDICATION TO CITIZENS OF LANE COUNTY: Dedicated to serving the public interest and enhancing the quality of life for the citizens of Lane County.

RLID and COOPERATIVE PROJECT PARTNERS

40 YEARS OLD: Local governments in Lane County have cooperated in developing geospatial data and technology for more than 40 years.
COMMON MAPPING PARTNERS: Historically known as the "Common Mapping" partners,
NATIONAL RECOGNITION: the Cooperative Project Partnership (the Partners) remains one of the most successful and long-standing regional mapping efforts in the country.
PARTNERSHIP NEEDS: The Partners share a need for consistent data across their respective jurisdictions and the desire to minimize redundancy and costs where possible through shared data, systems, and collaboration.
PARTNER AGENCIES: The Partner Agencies include:
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1968 Digitized data and sharing of parcels

1982 Multi-jurisdictional task force; common mapping system

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1997 Regional GIS Marketing Plan

Without the participation of the partner agencies, the public and business communities do not enjoy anything approaching the completeness, quality, and reasonable cost of RLID.

Fact #1
LCOG administers central GIS services to the Partners through an annual work program under the long-standing Cooperative Project Agreement (CPA).

SIX MAJOR IMPORTANT KEY FACTORS FOR THE FUTURE OF RLID/CPP

FACT #1: ADMINISTRATION
FACT #2: HISTORICAL FACTS
FACT #3: INTEGRATED WAREHOUSE AND SOFTWARE TOOLS
FACT #4: FOCUS SHIFT TO MAINTENANCE AND ENHANCEMENT OF RLID SYSTEM
FACT #5: MOVE TO SUBSCRIPTION APPROACH
FACT #6: RLID IS A CRITICAL COMPONENT FOR FUTURE SUCCESS

1. **RLID features a model regional oversight and management structure.** All of the partner agencies participate in the ongoing budgeting, planning, and oversight of the enterprise.
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5. **After nearly two decades, RLID remains extremely popular** among its users and the commercial subscriber pool continues its steady growth.

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Fact #2
Central GIS data and systems maintenance; GIS technical support and products; Regional coordination and data standards development.

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Fact #3
In 2000, the Partners developed a shared system comprising an integrated spatial and tabular data warehouse.

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Fact #4
With the growth and development of RLID, the focus of CPA resources shifted from centralized data maintenance, agency technical support services and map products toward continued maintenance and enhancement of the RLID system.

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Fact #5
To help offset the costs for RLID, LCOG has expanded commercial access to the website through subscriptions.

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Fact #6
Some Partners seek opportunities to serve their citizens through open data initiatives either through an integrated regional web portal or services created, hosted, and served by individual agencies.

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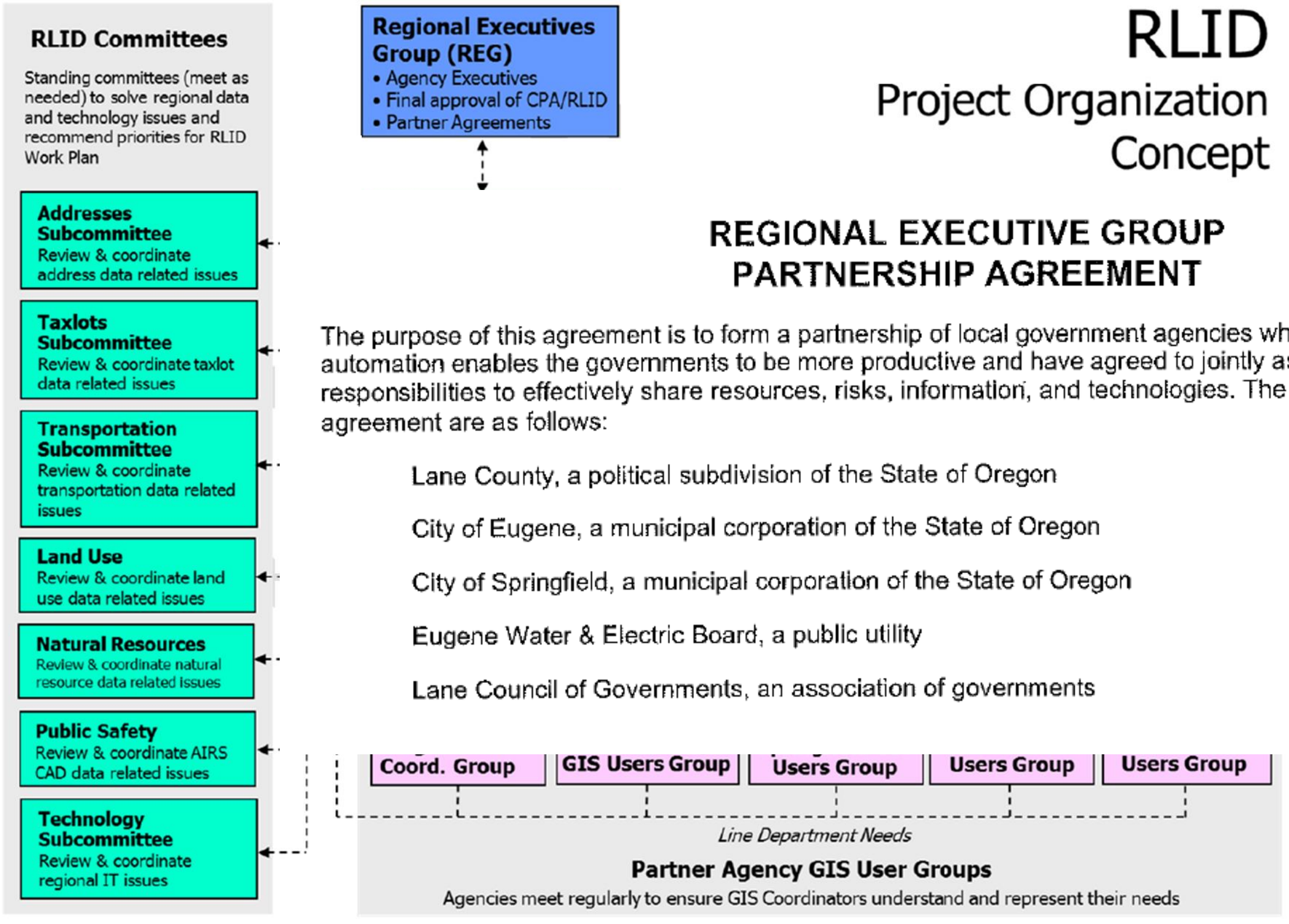

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	• Key Staff	5 min
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	• A Wider Constituency	5 min
	• Trends in Technology and Software for integrated and Consolidated Services	5 min
	• Funding Models for Cooperative Partnership	5 min
H.	Building High-Performance Organizations (HPO)	2 min
I.	Why Should LCOG Select Geographic Technologies Group?	3 min
		60 minutes

PROJECT UNDERSTANDING

Geographic Technologies Group understand that the Partners seek professional consulting services to perform the following task:

Stated in the Request for Proposals (RFP)

Review and restructure the regionally shared GIS systems and services administered under the longstanding Cooperative Partnership Agreement (CPA).

Partnership Objective

Our objective is to develop strategic plan(s) that address the organizational components of an innovative, successful, and durable regional partnership that continues well into the future.

The Partners have established a **process framework and two advisory bodies for supporting this effort**. The bodies are the long-standing Regional GIS Coordinators committee (GIS Coordinators), consisting of GIS leads from the five partner agencies; and the CPA Partnership Development Steering Workgroup (Steering Workgroup), composed of program manager and director stakeholders and the GIS Coordinators.

Geographic Technologies Group Project Goals and Objectives

Review, plan, design and restructure the regionally shared spatial data systems and services administered under the longstanding Cooperative Partnership Agreement (CPA), with special focus on **participation, governance, technology and an enterprise funding model.**

An Enterprise, Sustainable, Scalable and Enduring Multi-Jurisdictional GIS Strategic Plan

PROJECT UNDERSTANDING

Geographic Technologies Group understand that the Partners seek professional consulting services to perform the following task:

Regional Land Information Database (RLID) and Cooperative Project Agreement (CPA)

1. Governance
2. Participation
3. Technology
4. Funding Model

Why is a regional model full of opportunities?
What can LCOG – RLID/CPP and this Interagency model offer the region?
How can RLID grow?

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		60 minutes

PROJECT GOALS AND OBJECTIVES

PHASE I: ASSESS THE CURRENT SYSTEM

Describe and assess existing regionally shared spatial data system architecture, centralized services, technology framework, and partner interactions in the context of current partner agency requirements

- Architecture
- Centralized Services
- Technology Framework
- Partner Interactions

PHASE II: DEFINE FUTURE CONDITIONS

Define optimal regionally shared GIS system components and services, as well as the technological and resource requirements necessary to sustain these

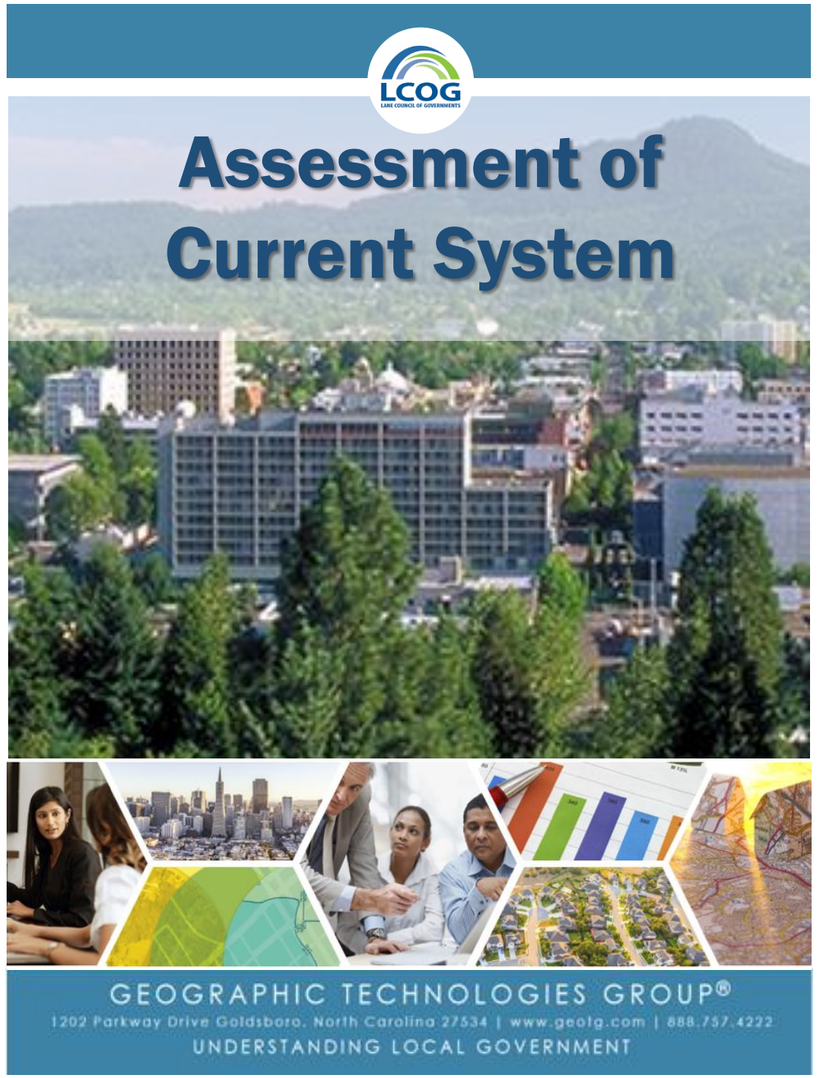
- Components
- Services
- Technology
- Resources

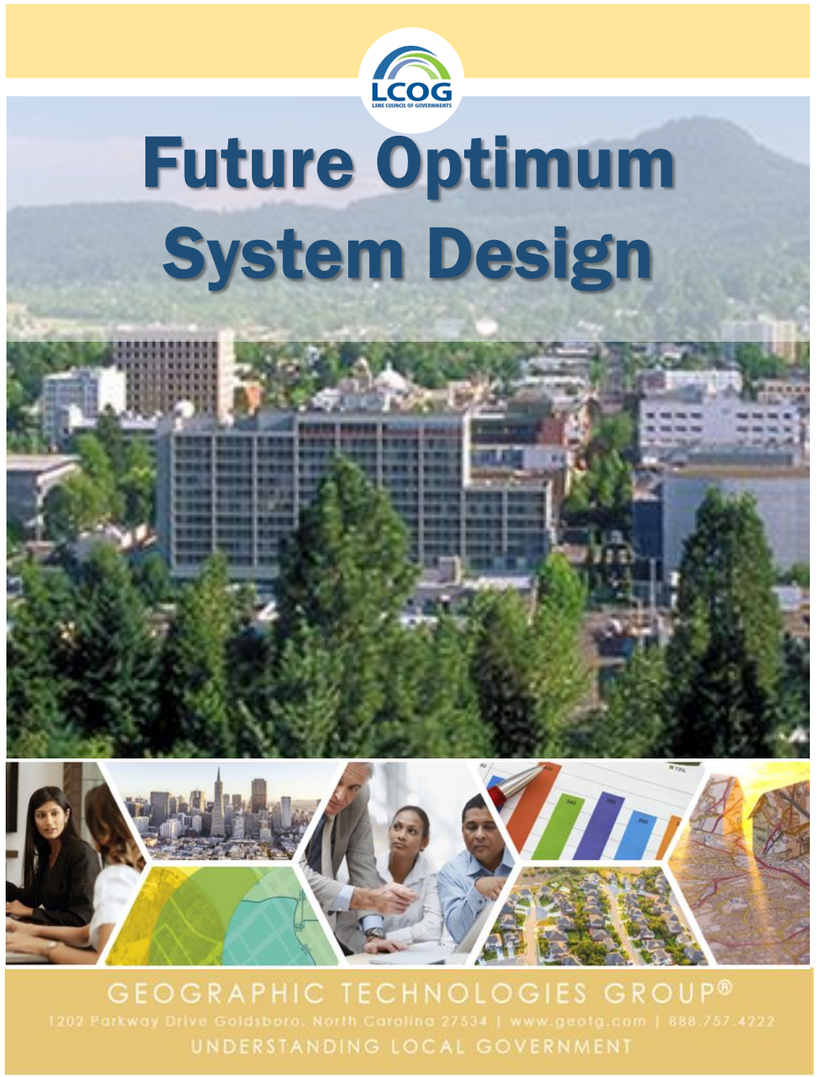
PHASE III: ESTABLISH GOVERNANCE

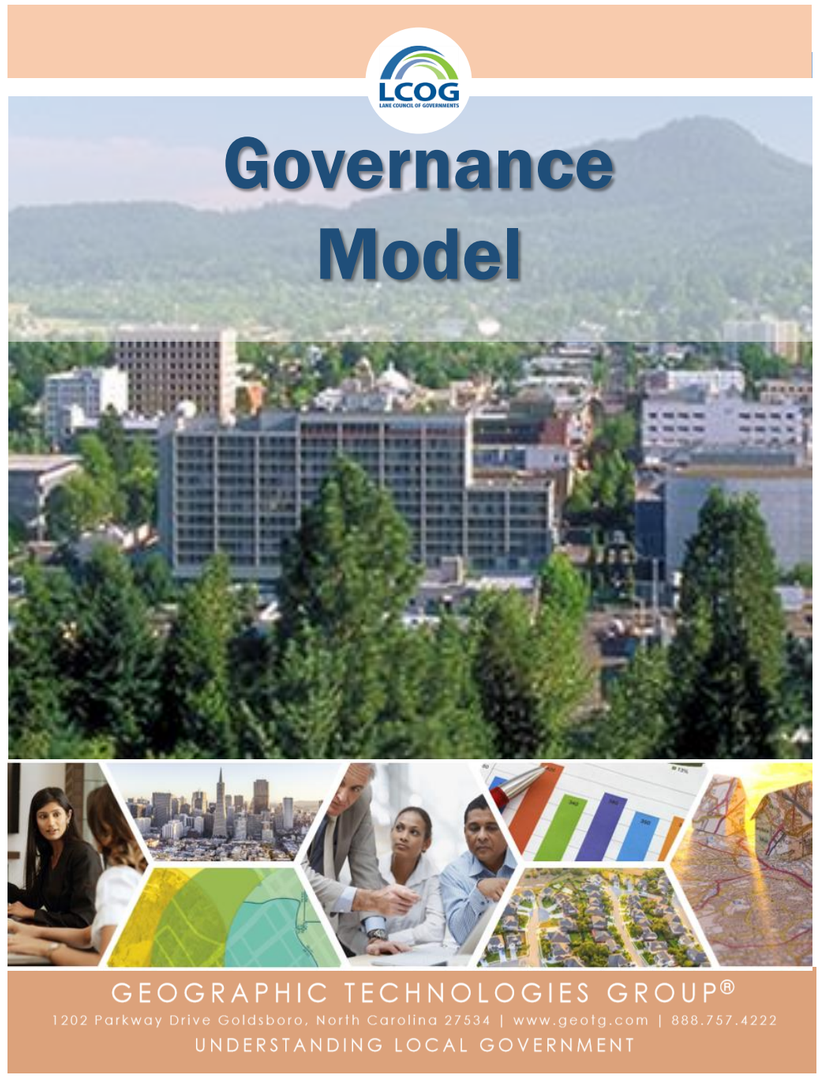
Recommend workable partnership model(s) for continuing collaborative regional GIS systems participation, governance, and a sustainable business and funding model

- Partnerships
- Governance
- Collaboration
- Sustainability
- Funding Model

PROJECT GOALS AND OBJECTIVES

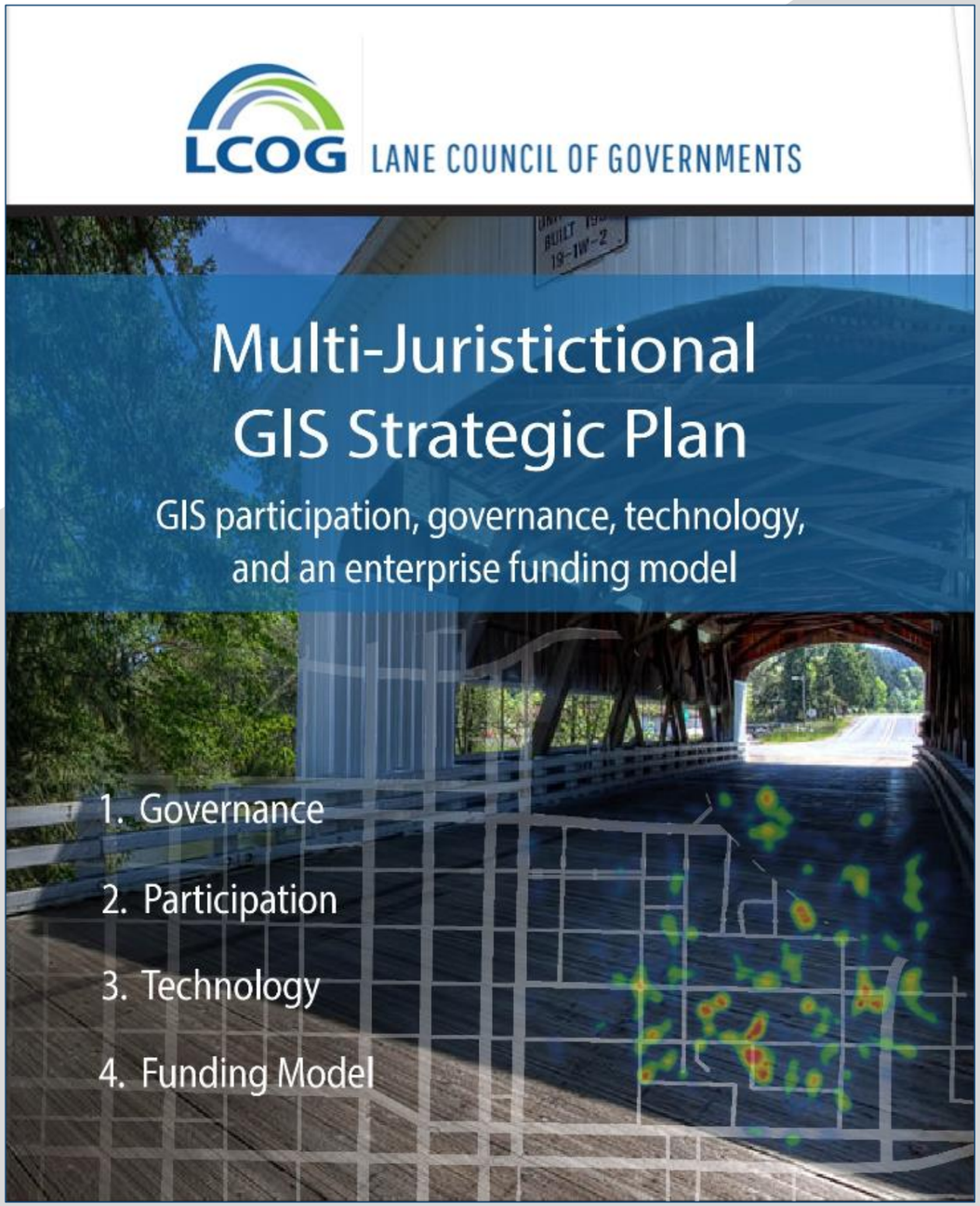






PROJECT GOALS AND OBJECTIVES

FINAL PRODUCT



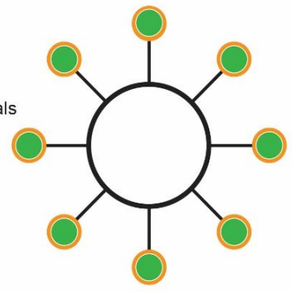
PROJECT GOALS AND OBJECTIVES

Decentralized, Centralized, Hybrid, and Hybrid & Regionalization Governance Models

Decentralized Governance Model

The second type of management strategy is called a Decentralized model. As the name implies a decentralized organizational structure divides GIS responsibilities throughout various departments.

» GIS responsibilities are divided throughout the organizations
» Multiple GIS groups/activities
» Small groups of GIS professionals
  - hardware/software
  - data distribution
  - data exchange
  - training
» End users share responsibility for maintaining data
» Multiple budget sources

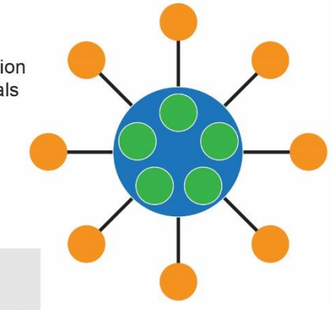


Department
GIS Staff

Centralized Governance Model

The first type of governance model is Centralized. A centralized organizational structure maintains a central department or division that is responsible for all GIS services.

» Single GIS business unit
» Dedicated department or division
» Core group of GIS professionals
  - create and edit data
  - hardware/software
  - analysis
  - data distribution
» Single budget source

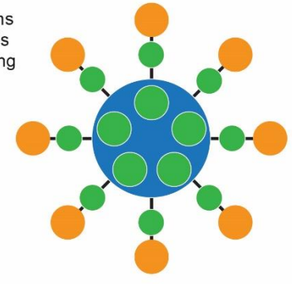


Department
GIS Staff
GIS Department/GIS Coordinator

Hybrid Governance Model

Many local governments utilize a Hybrid GIS organizational structure, based on the advantages of centralized and decentralized organizational structures

» Attempts to capture the strengths of unified and distributed models
» GIS functions are managed using responsibility matrix
» Intra-departmental stakeholder teams
» Funding and leadership are shared
» Dual accountability

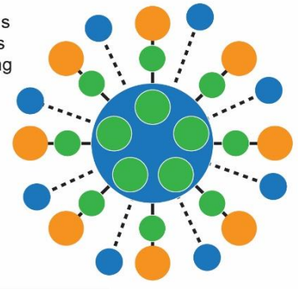


Department
GIS Staff
GIS Department/GIS Coordinator

Hybrid & Regionalization Governance Model

Many local governments utilize a Hybrid GIS organizational structure that supports a regionalization of GIS. It has the advantages of a centralized and decentralized model.

» Attempts to capture the strengths of unified and distributed models
» GIS functions are managed using responsibility matrix
» Intra-departmental stakeholder teams
» Funding and leadership are shared
» Dual accountability



Department
GIS Staff
GIS Department/GISCoordinator/External Organization

LCOG
LANE COUNCIL OF GOVERNMENTS

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APPROACH, METHODOLOGY AND SCOPE OF SERVICES

Fundamental Steps to

REGIONAL GIS STRATEGIC PLANNING

Designing a Multi-Agency Geo-Spatial Data Services Framework and Restructuring a Multi-Jurisdictional Partnership Agreement

APPROACH, METHODOLOGY AND SCOPE OF SERVICES

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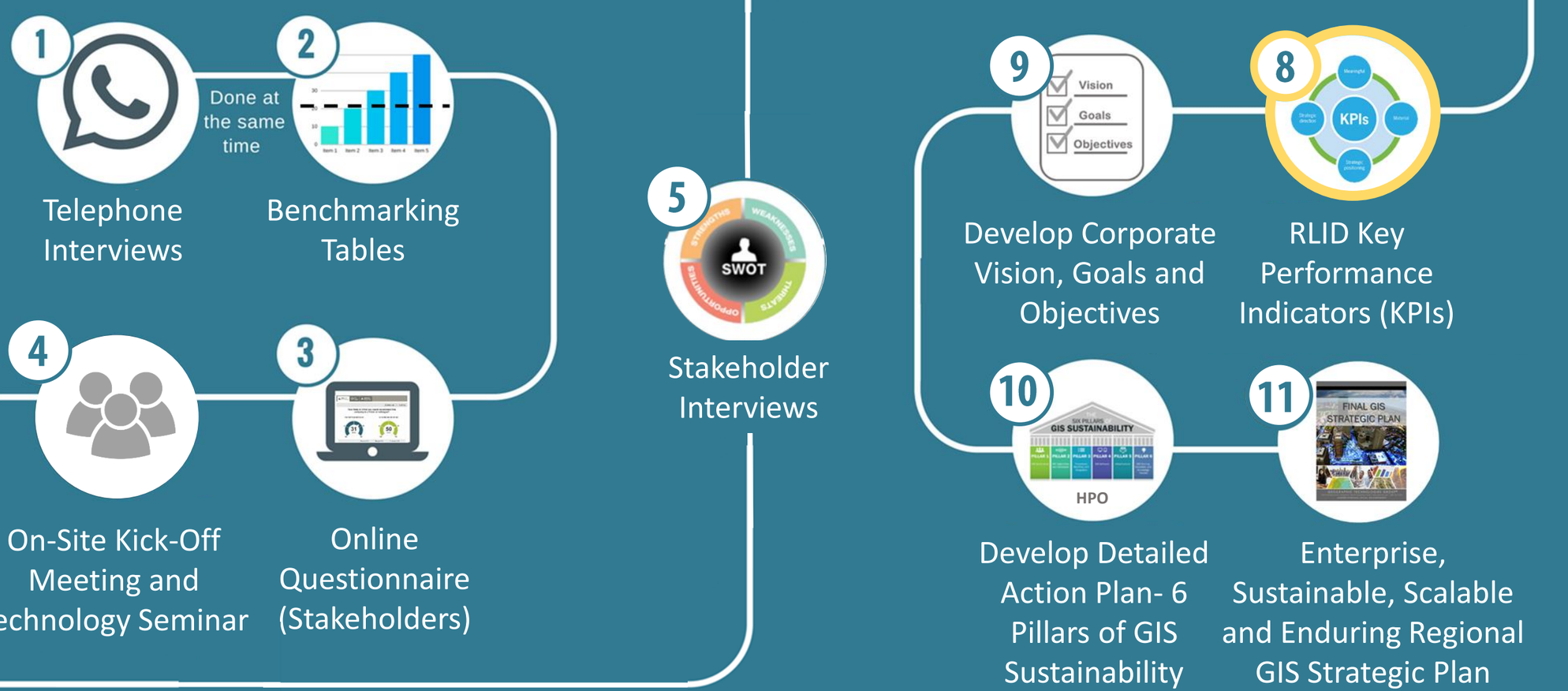

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EMAIL PROJECT ANNOUNCEMENT

Email

LCOG

LANE COUNCIL OF GOVERNMENTS

Designing a Multi-Agency Geo-Spatial Data Services Framework

Geographic Technologies Group (GTG) has been selected to design a multi-agency geo-spatial data services framework and restructure a multi-jurisdictional partnership agreement to guide the implementation of an enduring and thriving Enterprise GIS program for LCOG.

We need your help!

Keep an eye out for the Online Questionnaire

In a few days, you will receive an email with instructions and a link to an Online Questionnaire. This questionnaire will give staff an opportunity to anonymously comment on GIS needs, constraints, and opportunities. Your participation and feedback are important. Staff responses will be compiled into a report that will become the first step in evaluating the geospatial data, technology and organizational needs for LCOG.

Your participation will help guide the plan and vision for a Strategic, Enterprise, Sustainable, Scalable and Enduring GIS Program.

Become part of the process!

We thank you in advance.

GTG is the country's leading GIS Strategic Planning company, with award-winning solutions throughout North America.

TAKE THE SURVEY

Email

LCOG

LANE COUNCIL OF GOVERNMENTS

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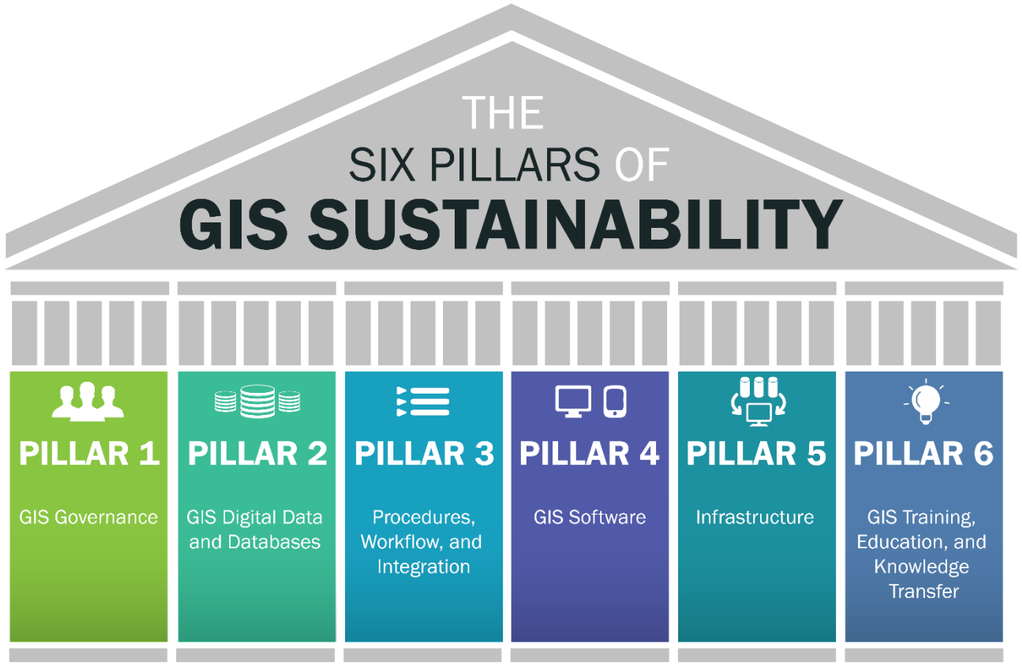

GTG is the country's leading GIS Strategic Planning company, with award-winning solutions throughout North America.

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		60 minutes

THREE PHASES AND SEVEN STEPS

Governance, Participation, Technology and Funding Model

PHASE I | **PHASE II** | **PHASE III**

STEP 01 GISQ: Online Questionnaire

STEP 02 Kick-Off Meeting & Technology Seminar

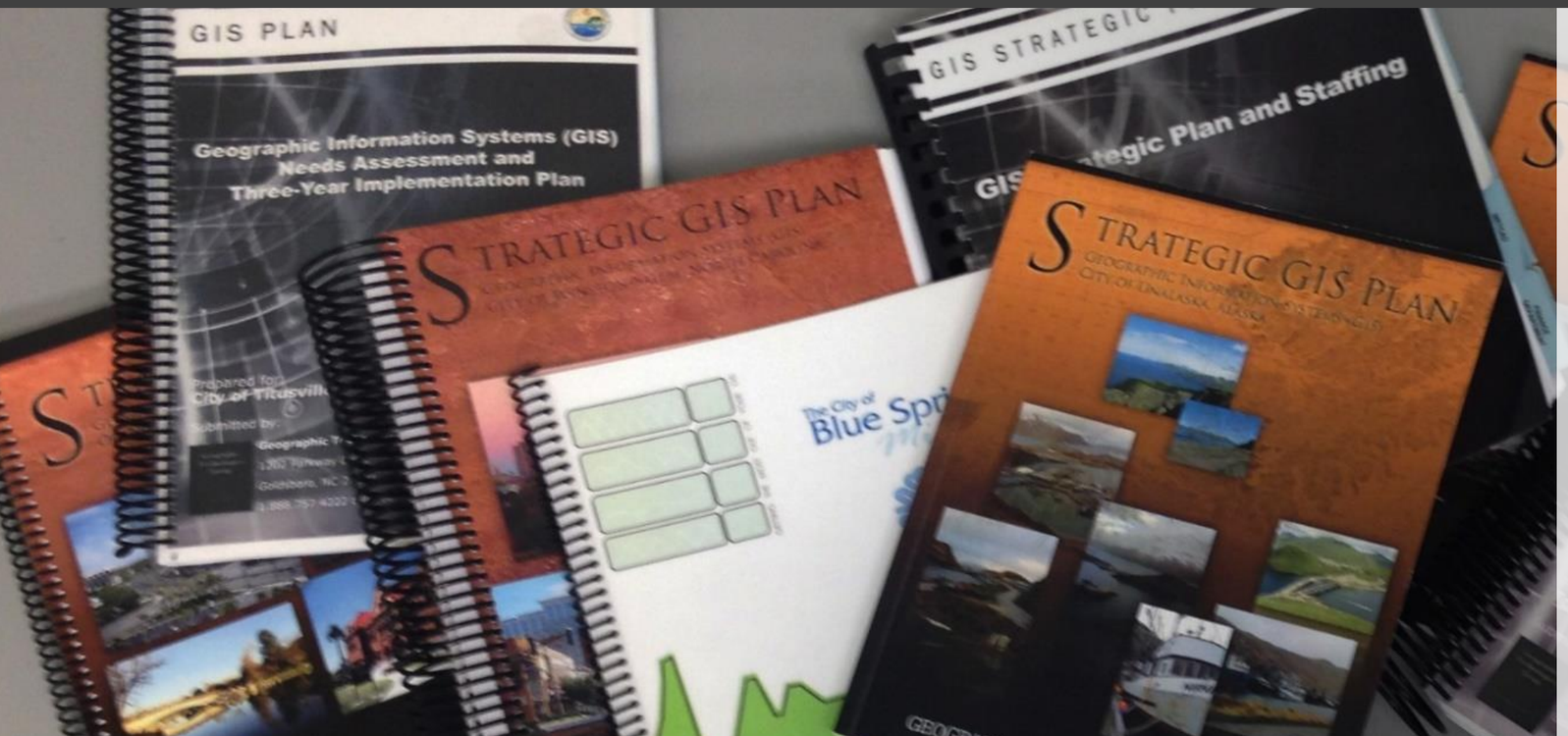
STEP 03 Stakeholder Interviews

STEP 04 GIS Needs Assessment Findings Presentation

STEP 05 Alternative System Design Presentation

STEP 06 Business Plan & ROI Analysis

STEP 07 **PRODUCT** GIS Strategic Plan



- **Multi year phased plan**
- **Step-By-Step Plan of Action**
- **Multiple and discrete phases**
- **Funding options and alternatives**
- **Short term and long term solutions**
- **Implementation costs**

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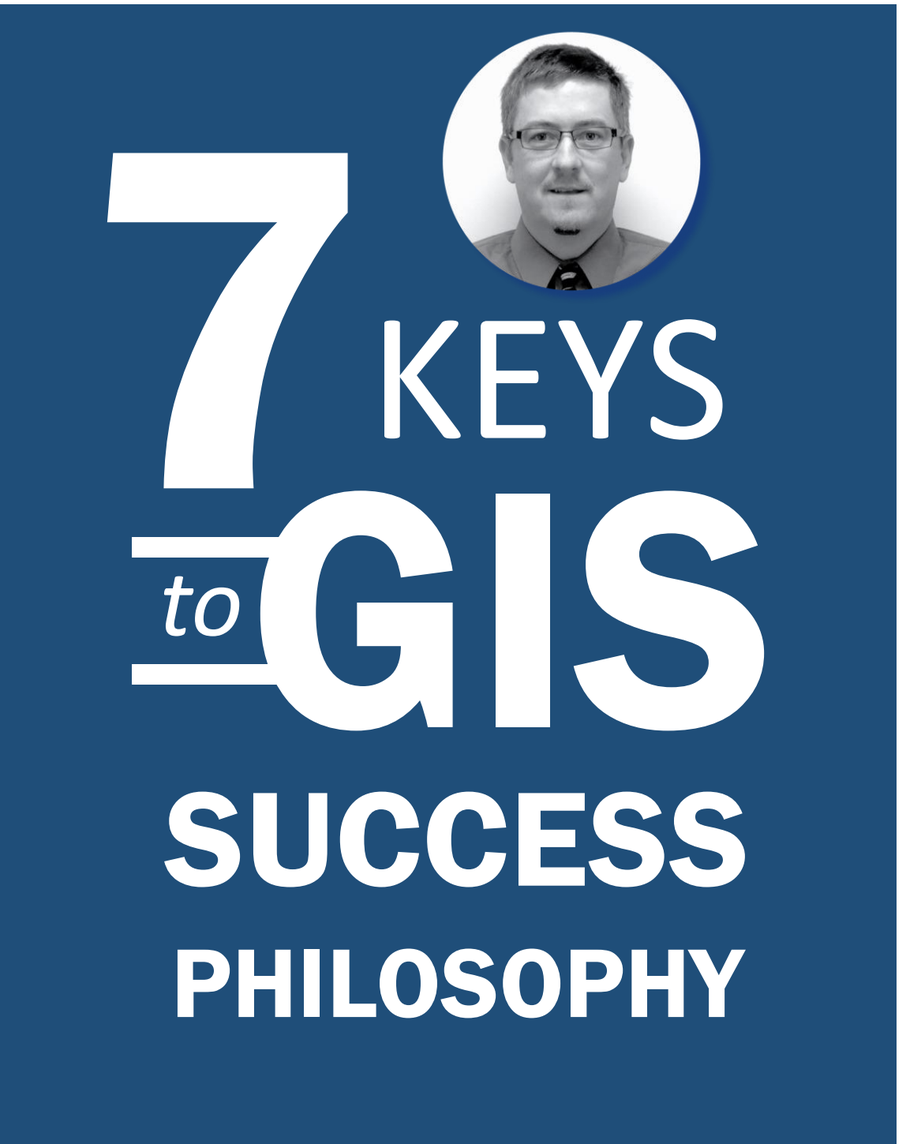
SPECIFIC LCOG QUESTIONS

1 *"Please discuss how you will adapt your standard "Seven Keys to GIS Success" service approach and recommendations to our particular needs given the long-standing multi-agency GIS partnership in Lane County and mature GIS systems we share in our region"*



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SPECIFIC LCOG QUESTIONS

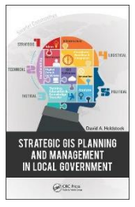
2 *"How will you ensure, to the extent possible, that the staff whose qualifications are presented in the Statement of Qualifications are the staff who execute the project?"*

David Holdstock, CEO

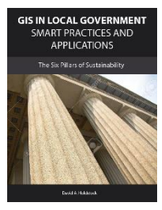
Project Manager, GISP

25 Years of Experience

GIS Needs Assessment & Strategic Plans



Author, *Strategic GIS Planning and Management in Local Government*



Coming 2019: *GIS in Local Government: Smart Practices and Applications The Six Pillars of Sustainability*

Curtis Hinton, President

Project Manager, GISP

25 Years of Experience

GIS Needs Assessment & Strategic Plans

7 Keys to GIS Success

Matthew McLamb, CTO

Chief Technology Officer

8 Years of Experience

Strategic GIS Planning

ArcGIS Online Expert

Local Government Information Model

Kathy Andrade-Ulloa

Senior Strategic Planner

13 Years of Experience

Strategic Planning

Business Development

Database Management and Maintenance

Team Roles

Task	David Holdstock	Curtis Hinton	Matthew McLamb	Kathy Andrade-Ulloa
	Key Role			
Phase I: GIS Needs Analysis	●	●	●	●
Step 1: Online Questionnaire	●	●		●
Step 2: Kick-Off Meeting and Seminar	●	●	●	
Step 3: Stakeholder Interviews	●	●	●	
Step 4: GIS Needs Assessment Presentation	●	●		
Phase II: Conceptual Alternative Systems Design	●	●	●	●
Step 5: Vision, Benchmarking, SWOT, KPIs	●	●	●	●
Phase III: Final GIS Strategic Implementation Plan	●	●	●	●
Step 6: Business Plan and ROI Analysis	●	●	●	
Step 7: Final GIS Strategic Implementation Plan	●	●	●	●

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SPECIFIC LCOG QUESTIONS

3 *"What are your experiences in formulating equitable contributions from each member of a regional partnership?"*

12 SHARED COLLABORATIVE GIS SYSTEMS

- City of Vancouver and Clark County, WA
- Columbus Consolidated Government, GA
- Athens-Clarke County, GA
- City of Casper and Natrona County, WY
- City of Edina and LOGIS, MN
- City of Winston-Salem and Forsyth County, NC
- Orange County and Municipalities, CA
- City of Eagan and LOGIS, MN
- Gwinnett County and Municipalities, GA
- Rome-Floyd County, GA
- San Mateo County, CA
- Louisville/Jefferson County Information Consortium (LOJIC) and Louisville/Jefferson County, KY

Additional Organizations Researched:

- Leon County and Tallahasee, FL
- San Diego County and City, CA
- Knox County and Knoxville Utilities and City, TN
- Mario County and Indianapolis, IN
- DeKalb County and Auburn, IN
- Champaign County Consortium, IL
- McLean County, IL Regional GIS
- Cheyenne- Laramie County Cooperative GIS

KEY FACTORS

- Population
- Budget
- Services
- Software

EXAMPLES

- City of Edina and LOGIS
- Gwinnett County and Municipalities
- Louisville-Jefferson County and LOJIC
- City of Vancouver and Clark County

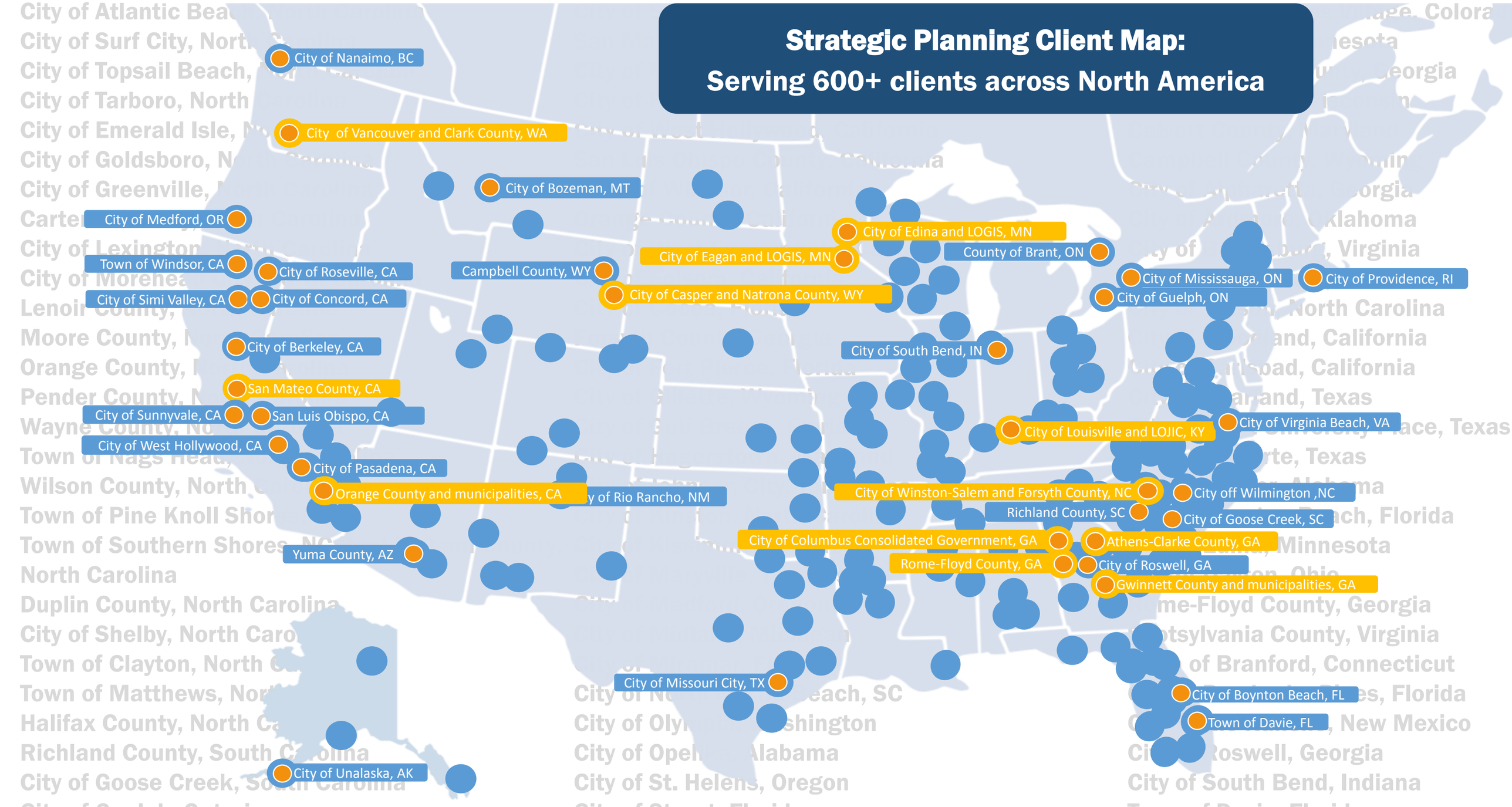
SPECIFIC LCOG QUESTIONS

3 *"What are your experiences in formulating equitable contributions from each member of a regional partnership?"*

CHALLENGES, BARRIERS, RISKS, AND PITFALLS OF MULTI-JURISDICTIONAL COLLABORATIVE AND SHARED GIS SYSTEMS

Organization	Politics	Funding	Participation of Partner Agency (do-it-themselves)	Architecture Data Sharing	Software Licensing	Cost	Governance Model	Integration and Interoperability	Level of Expertise in Participating Agencies
City of Vancouver and Clark County, WA	✓	✓		✓	✓	✓	✓	✓	✓
Columbus Consolidated Government, GA	✓	✓	✓	✓	✓	✓	✓	✓	✓
Athens-Clarke County, GA	✓	✓	✓	✓	✓	✓	✓	✓	✓
City of Casper and Natrona County, WY	✓	✓			✓				
City of Edina and LOGIS, MN		✓	✓	✓	✓	✓		✓	✓
City of Winston-Salem and Forsyth County, NC	✓		✓			✓			✓
Orange County and Municipalities, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓
City of Eagan and LOGIS, MN		✓	✓	✓	✓	✓		✓	✓
Gwinnett County and Municipalities, GA		✓	✓	✓	✓	✓			✓
Rome-Floyd County, GA	✓	✓		✓					
San Mateo County, CA	✓	✓	✓				✓		✓
Louisville/Jefferson County and LOJIC, KY	✓	✓		✓	✓	✓	✓	✓	✓

12 SHARED COLLABORATIVE GIS SYSTEMS



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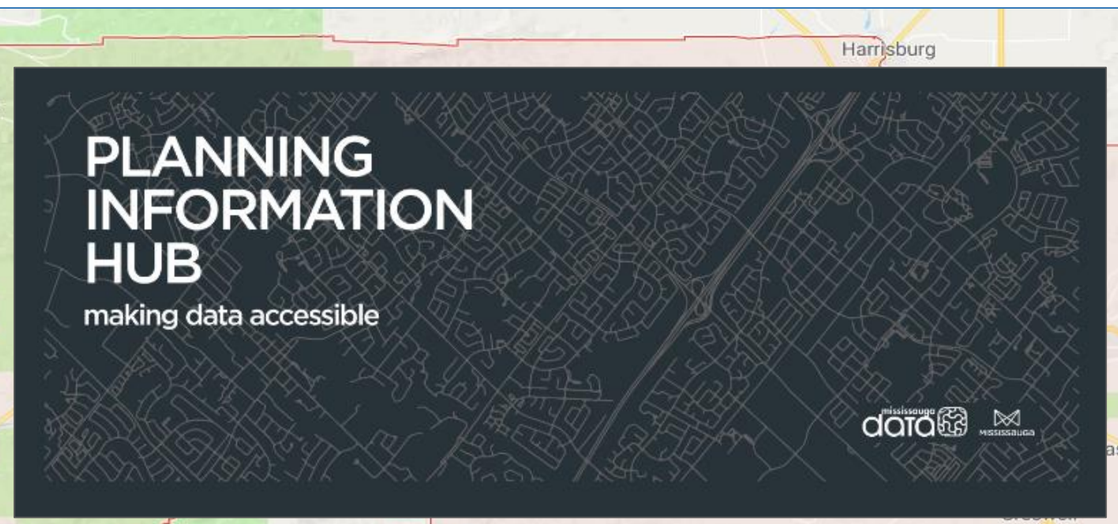

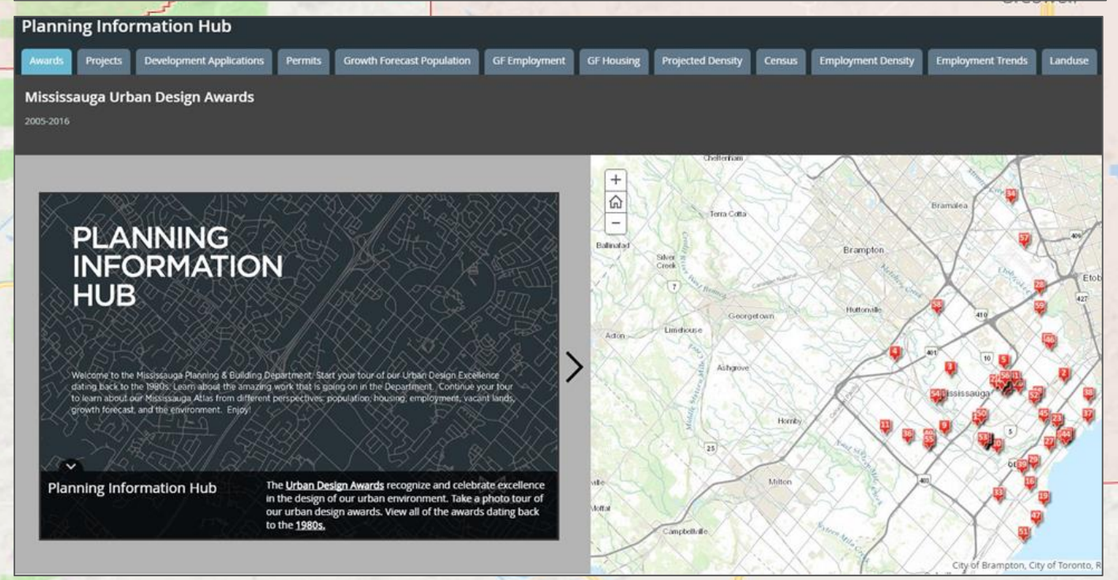

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Schools

- School District 19 (Springfield)
- School District 4J (Eugene)
- School District 40 (Creswell)
- School District 45J (South Lane)
- School District 52 (Bethel)
- School District 68 (McKenzie)
- Education, College, and Libraries:
  - Siuslaw Library District
  - Fern Ridge Library District
  - Lane Library District
  - Lane Community College
  - Lane Education Service District

Cities

- City of Coburg
- City of Cottage Grove
- City of Creswell
- City of Dunes City
- City of Eugene
- City of Florence
- City of Junction City
- City of Lowell
- City of Oakridge
- City of Springfield
- City of Veneta
- City of Westfir

Others

- Emerald People's Utility District
- Eugene Water & Electric Board
- Heceta Water People's Utility District
- Junction City RFPD
- Lane County
- Lane Transit District
- Port of Siuslaw
- River Road Park & Recreation
- Siuslaw Valley Fire & Rescue
- Western Lane Ambulance District
- Willamalane Park & Recreation District

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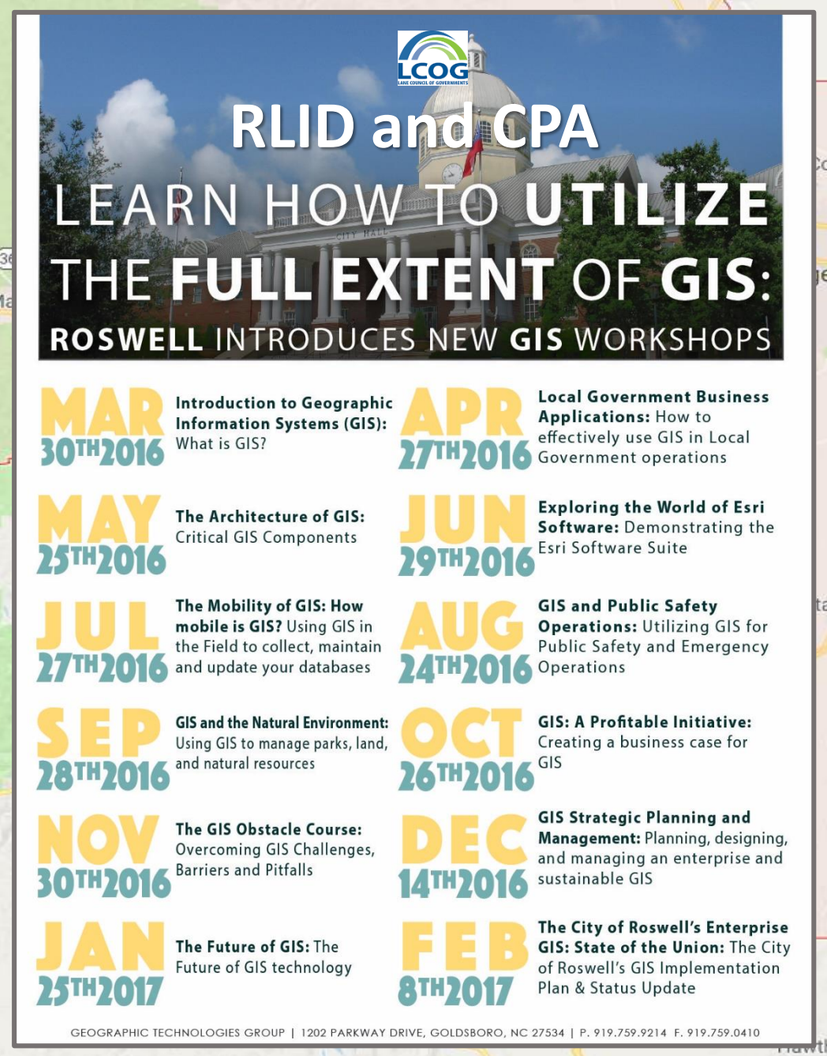

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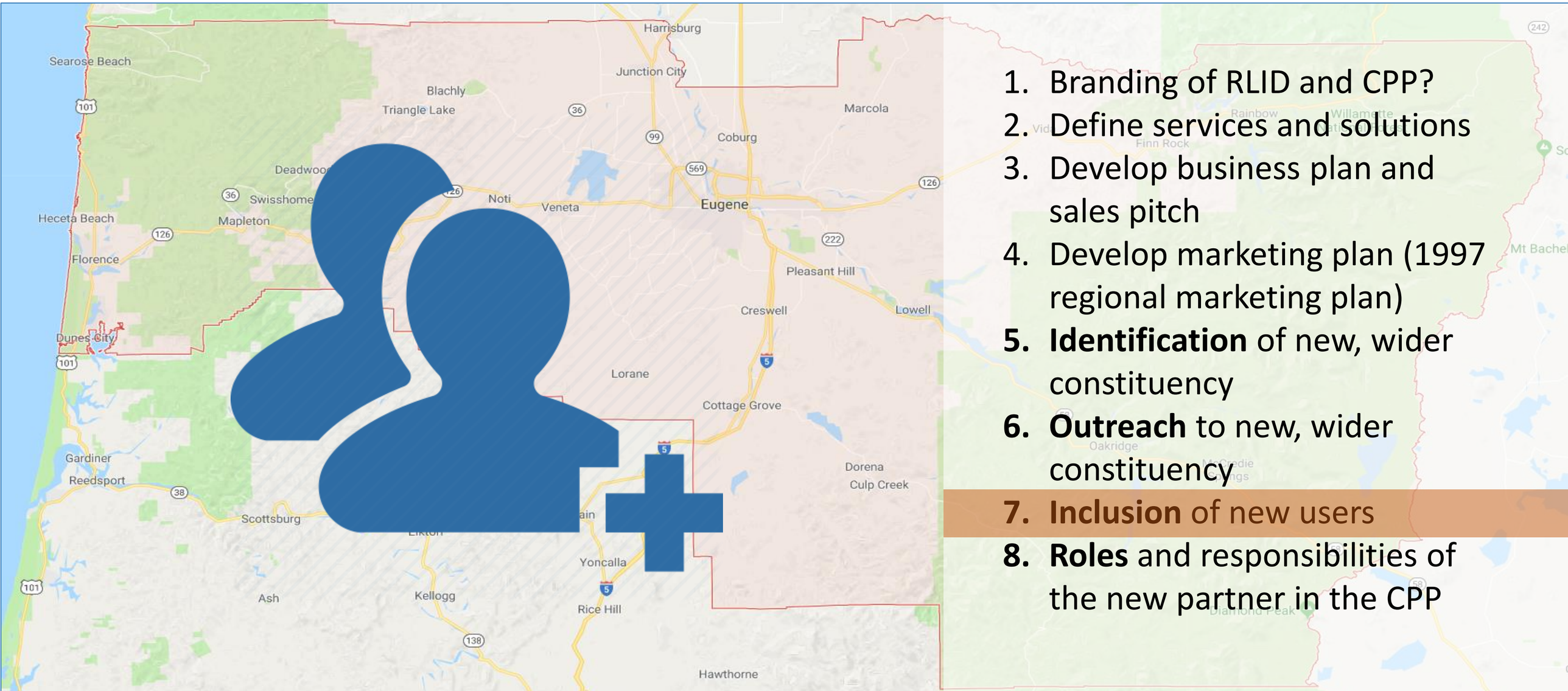

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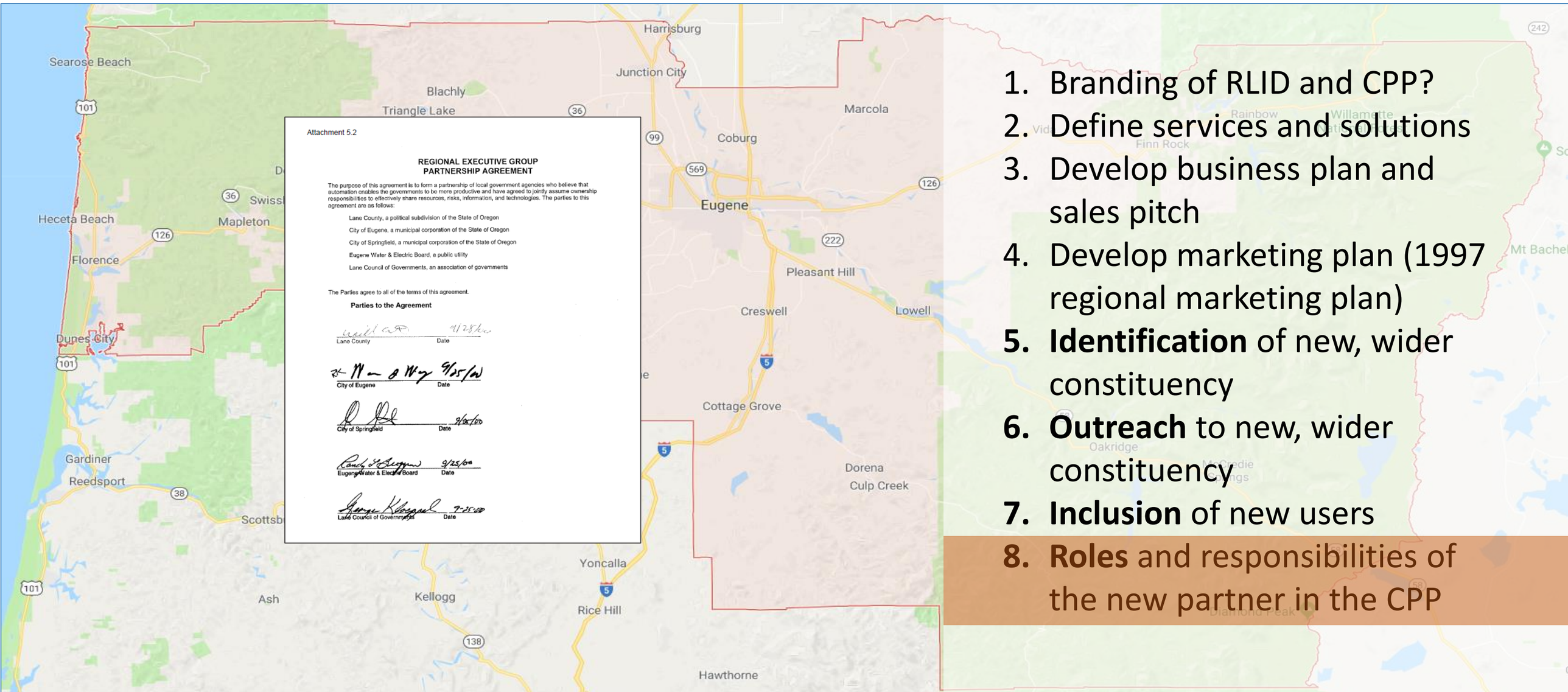

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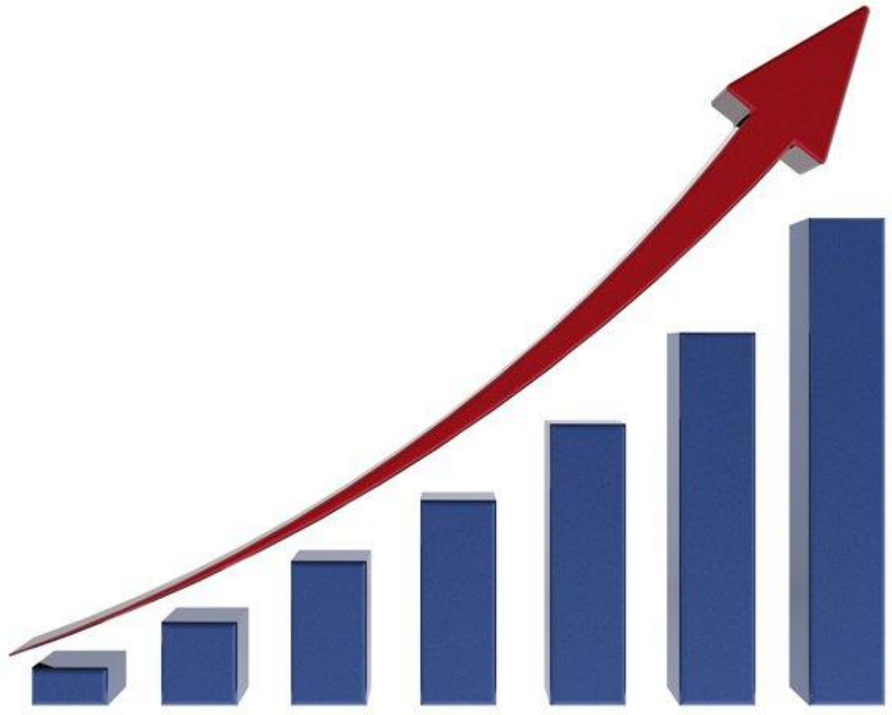
NUMBER OF GIS USERS BEFORE AND AFTER IMPLEMENTATION		
ORGANIZATION	**BEFORE**	**AFTER**
City of Roswell, GA	15	300
City of Vancouver and Clark County, WA	102	804
Columbus Consolidated Government, GA	67	425
Athens-Clarke County, GA	29	304
City of Casper and Natrona County, WY	11	229
City of Edina and LOGIS, MN	32	441
City of Winston-Salem and Forsyth County, NC	2402	3870
Orange County and Municipalities, CA	1753	4902
City of Eagan and LOGIS, MN	44	503
Gwinnett County and Municipalities, GA	96	373
Rome-Floyd County, GA	78	322
San Mateo County, CA	295	1660
Louisville/Jefferson County and LOJIC, KY	624	1490



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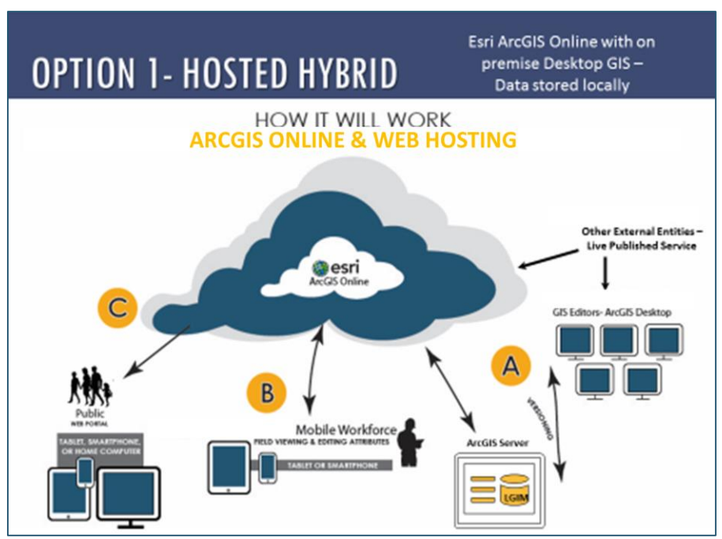
SPECIFIC LCOG QUESTIONS

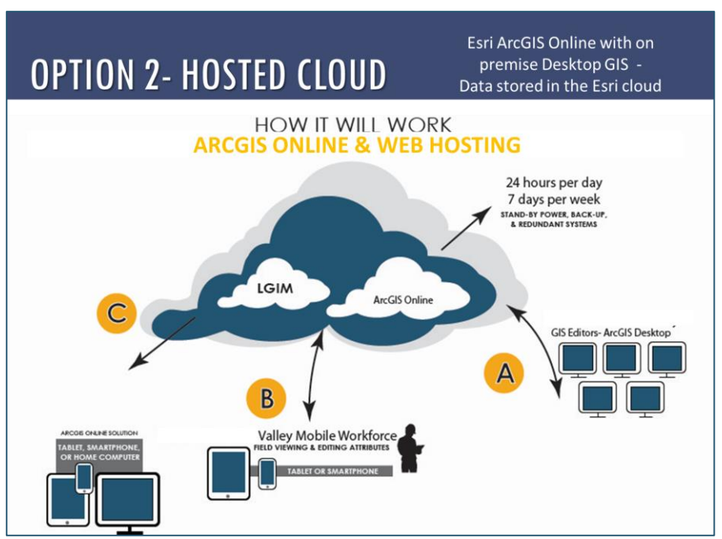
5 *"Discuss recent trends in software licensure, cloud computing, and on-line publishing of spatial data, such as ArcGIS Online. What are optimal and durable technological pathways for managing integrated and consolidated services in this environment?"*

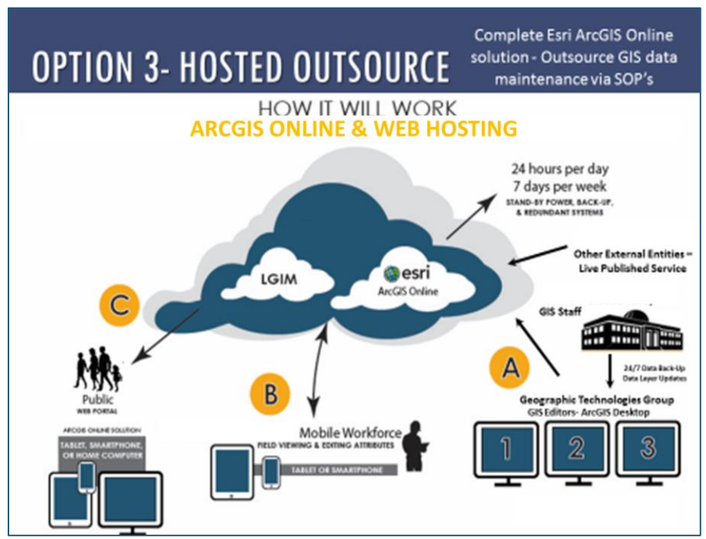
Clients: Cloud vs. Premise

Existing Client Examples

City of Guelph- Premise-Based and Cloud Solutions
City of Healdsburg- Premise-Based and Cloud
City of Unalaska- Premise-Based and Portal
Town of Windsor- Total Cloud Solution
City of Roswell- Premise-Based and Cloud Solutions







SPECIFIC LCOG QUESTIONS

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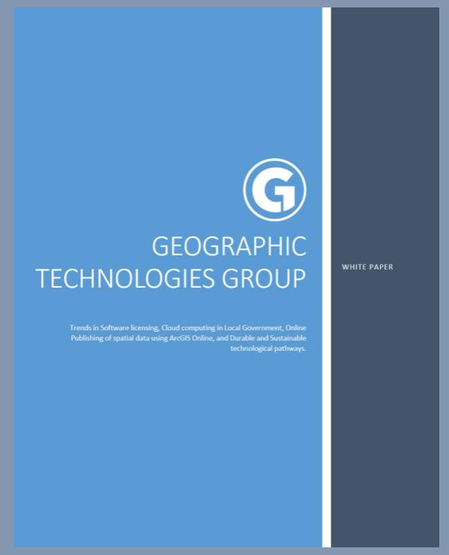
1. Recent trends in software licensing
2. Cloud computing in Local Government
3. Online Publishing of spatial data using ArcGIS Online
4. Optimum durable, technological pathways
   - Options for LCOG
     1. Complete ArcGIS Online
     2. ArcGIS Enterprise and ArcGIS Online Hybrid (Premise-Based)
     3. **ArcGIS Enterprise and ArcGIS Online Hybrid (Hosted)**
     4. ArcGIS Enterprise and ArcGIS Online Hybrid (Premise and Hosted Hybrid)

Recommended

5. ArcGIS Hub

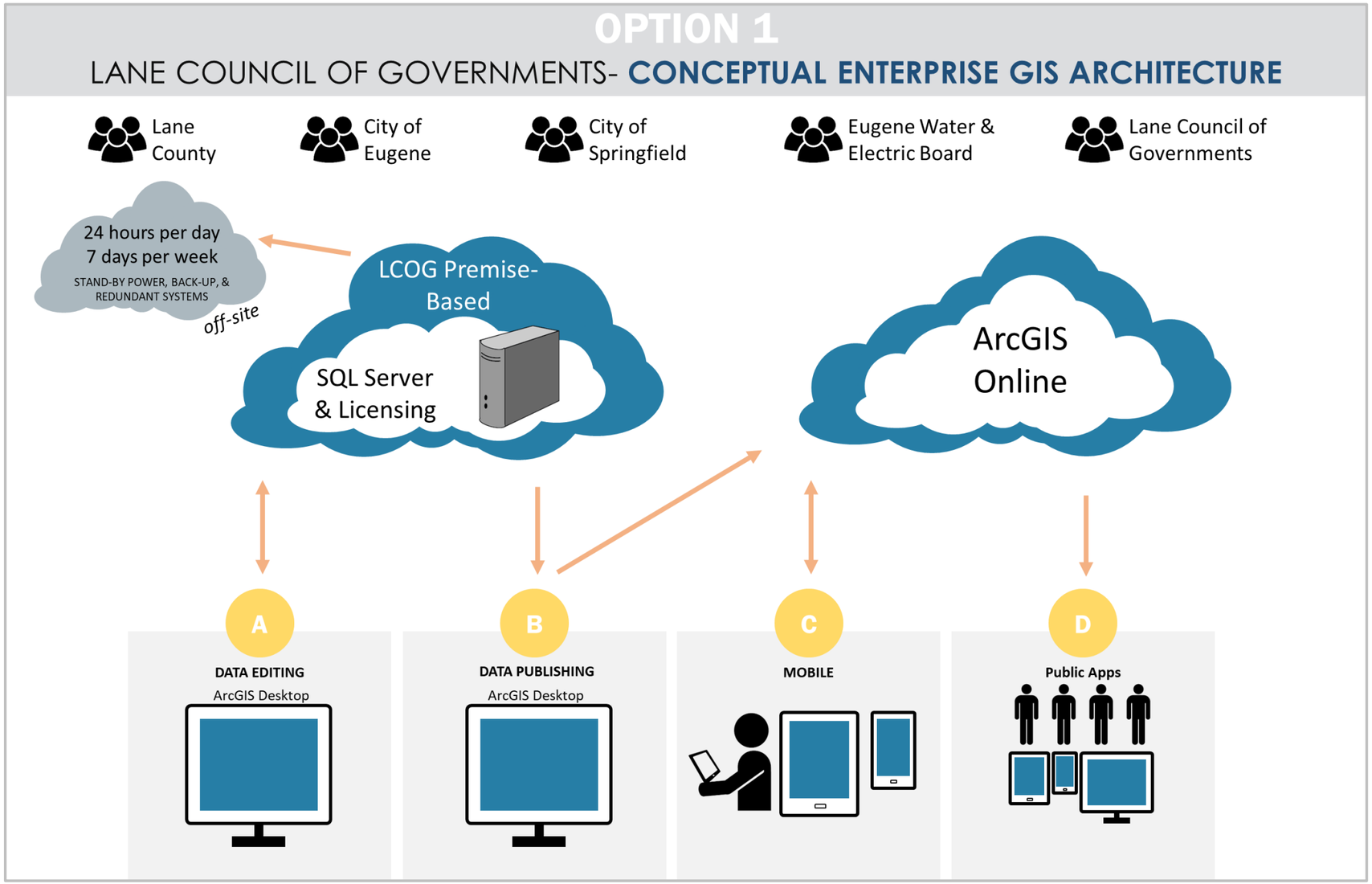


SPECIFIC LCOG QUESTIONS

5 *"Discuss recent trends in software licensure, cloud computing, and on-line publishing of spatial data, such as ArcGIS Online. What are optimal and durable technological pathways for managing integrated and consolidated services in this environment?"*

Option 1 – Complete ArcGIS Online

- Agencies store data in SQL and edit data in SQL
- Publish services using ArcGIS Online
- License manager for ArcGIS Desktop premise based on LCOG server
- ArcGIS Online accounts and groups

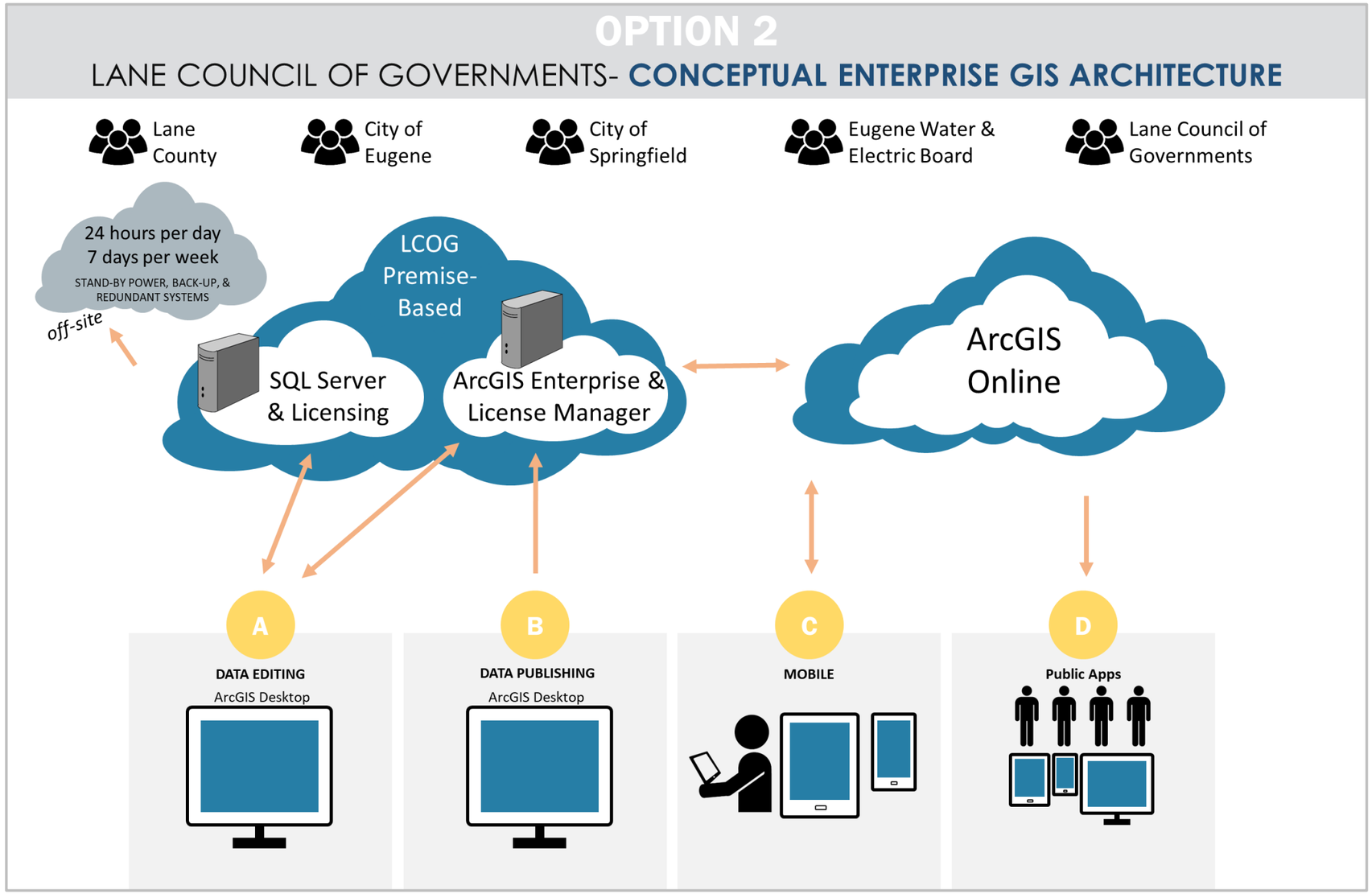


SPECIFIC LCOG QUESTIONS

5 *"Discuss recent trends in software licensure, cloud computing, and on-line publishing of spatial data, such as ArcGIS Online. What are optimal and durable technological pathways for managing integrated and consolidated services in this environment?"*

Option 2 – ArcGIS Enterprise and ArcGIS Online Hybrid (Premise Based)

- Agencies store data in SQL and edit data in SQL
- Publish services using ArcGIS Enterprise
- Some services are public and routed through ArcGIS Online for public consumption
- License manager for ArcGIS Desktop premise based on LCOG server
- ArcGIS Online accounts and groups



SPECIFIC LCOG QUESTIONS

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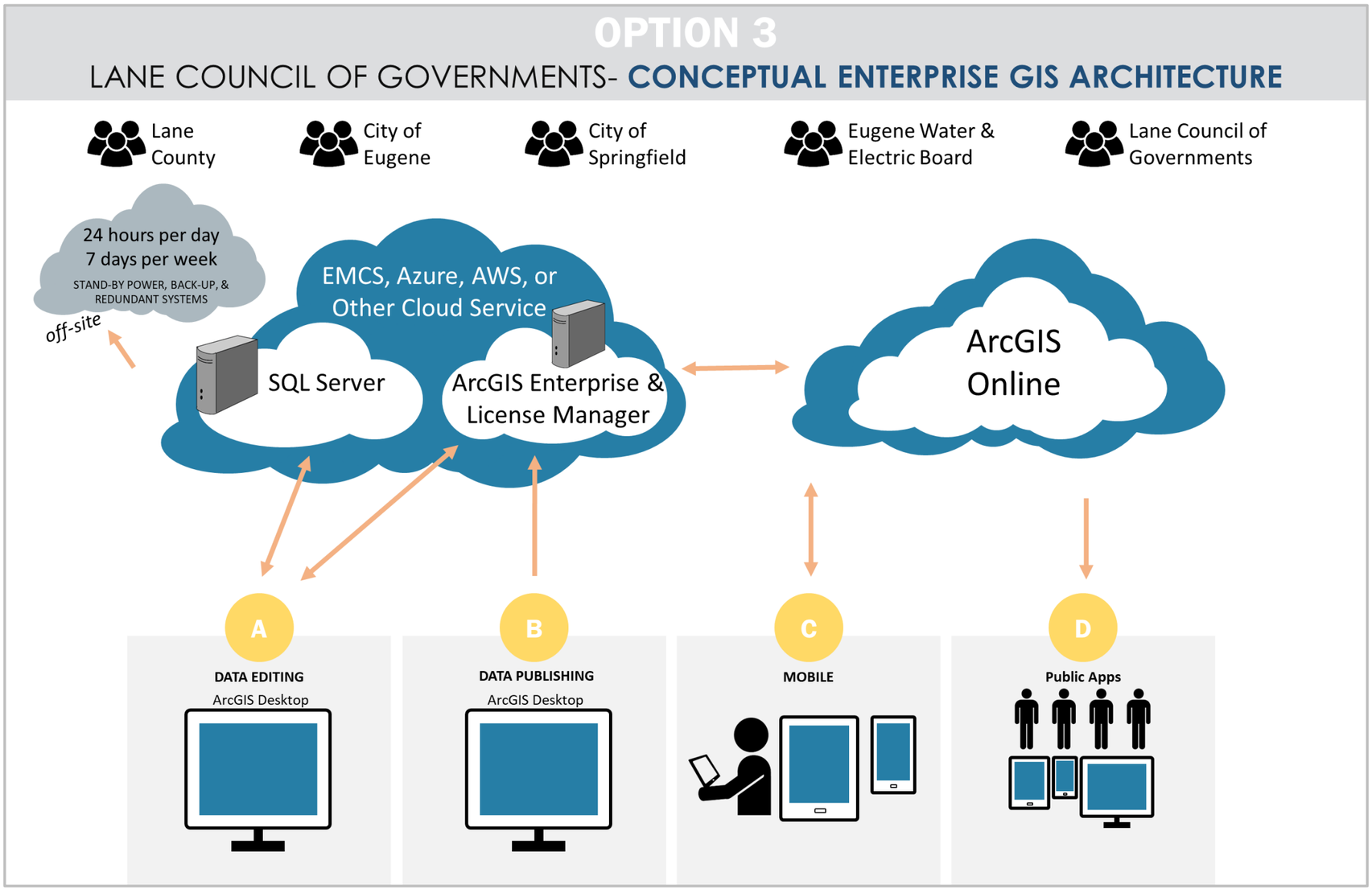
"Discuss recent trends in software licensure, cloud computing, and on-line publishing of spatial data, such as ArcGIS Online. What are optimal and durable technological pathways for managing integrated and consolidated services in this environment?"

Recommended

Option 3 – ArcGIS Enterprise and ArcGIS Online Hybrid (Hosted)

- Agencies store data in SQL and edit data in SQL which is hosted
- Publish services using ArcGIS Enterprise which is hosted
- Some services are public and routed through ArcGIS Online for public consumption
- License manager for ArcGIS Desktop on hosted server
- ArcGIS Online accounts and groups



SPECIFIC LCOG QUESTIONS

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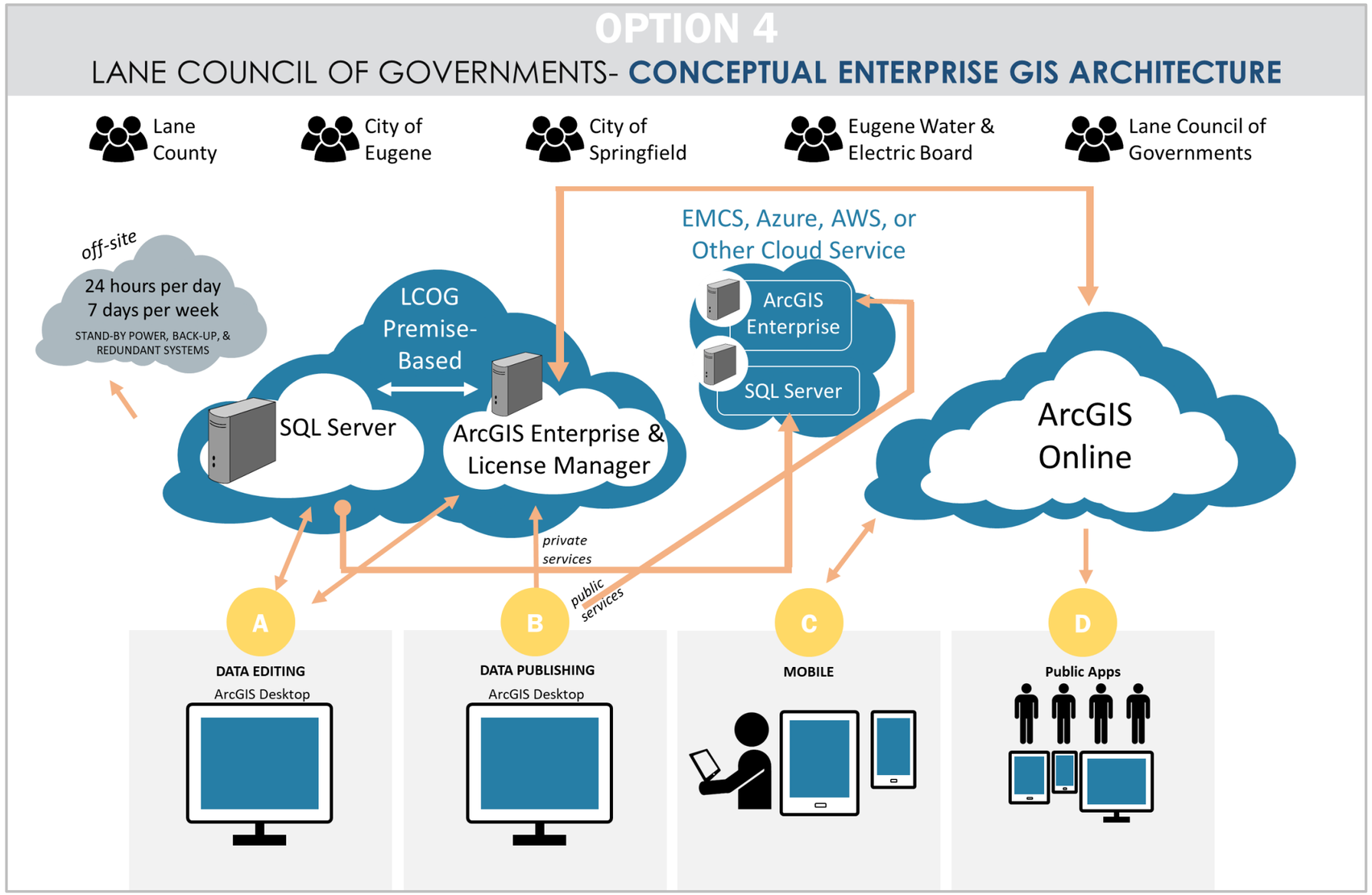
"Discuss recent trends in software licensure, cloud computing, and on-line publishing of spatial data, such as ArcGIS Online. What are optimal and durable technological pathways for managing integrated and consolidated services in this environment?"

Option 4 – ArcGIS Enterprise and ArcGIS Online Hybrid (Premise and Hosted Hybrid)

- Agencies store data in SQL and edit data in SQL which is premise based
- Publish services using ArcGIS Enterprise
- Private services are published using premise based ArcGIS Enterprise
- Public services are published using hosted ArcGIS Enterprise
- Some services are public and routed through ArcGIS Online for public consumption
- License manager for ArcGIS Desktop premise based on LCOG server
- ArcGIS Online accounts and groups



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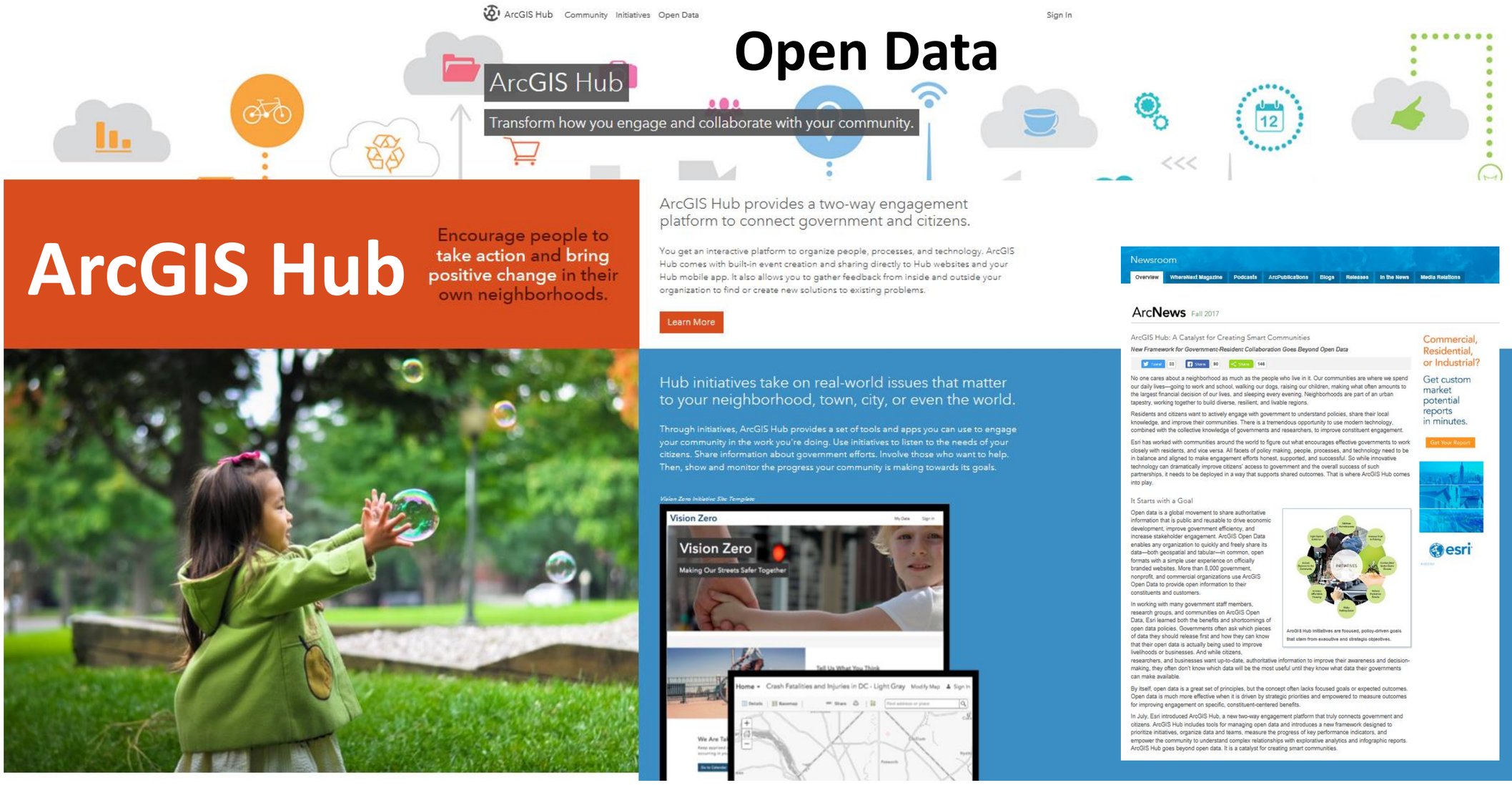
ArcGIS
Open Data



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SPECIFIC LCOG QUESTIONS

6

"Discuss your experience balancing private and public funding of public data services. What are the advantages and disadvantages of open data, and how can the value of open data be measured and funded?"

Part A: Discuss your experience balancing private and public funding of public data services.
(Private companies, businesses, residents and other government agencies paying for "public" data services)

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Case Study #1: Clarke County, Washington

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About LOGIS?
Headquartered in Golden Valley, **Local Government Information Systems (LOGIS)**

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About LOJIC
The **Louisville/Jefferson County Information Consortium (LOJIC)** is a multi-agency partnership to build and maintain a Geographic Information System (GIS) to serve Louisville Metro and Jefferson County. We develop interactive maps, maintain geographic data, and provide a variety of map and data services for Louisville, KY.

We have an open data portal at http://data.lojic.org/ and we make some of our web services available to public use. https://www.lojic.org/services/web-servicesWe do have commercial and noncommercial fees in accordance with **Kentucky Revised Statute 61**
https://www.lojic.org/

SPECIFIC LCOG QUESTIONS

6 *"Discuss your experience balancing private and public funding of public data services. What are the advantages and disadvantages of open data, and how can the value of open data be measured and funded?"*

Part B: What are the advantages and disadvantages of open data, and how can the value of open data be measured and funded?"

OPEN DATA: WHAT IS IT?

Open data is the idea that some **data** should be freely available to everyone to use and republish as they wish, without restrictions from copyright, patents or other mechanisms of control.

OPEN DATA: WHAT ARE THE ADVANTAGES?

"Openness and open data in government strengthens our democracy, promotes the delivery of efficient and effective services to the public, and contributes to economic growth".

ADVANTAGES

1. Part of the recognized digital transformation
2. Improves citizen engagement. Allows citizen to improve their communities
3. Wider participation
4. Part of the smart city and smart government initiative
5. Simplifies and improves lives of individuals
6. Helps manages public services more efficiently
7. Promotes sustainable communities
8. Raw material for economic growth and associated benefits – inspires developers
9. Encourages accountable, efficient and effective government
10. Helping create a data driven culture
11. The value of information transparency

http://opendata.gis.co.scott.mn.us/
https://opendurham.nc.gov/pages/home/
http://www.cambridgema.gov/departments/opendata
https://www.chapelhillopendata.org

DISADVANTAGES

1. Violating Privacy
2. Misuse of Data
3. Misinterpretation of Data
4. Cost of maintaining accurate and reliable data
5. Adverse response to sensitive data
6. Data gaps and interpretation
7. Tools must be developed for cleaning, sorting, analyzing and visualizing open data
8. Data collected under different conditions or with different assessment tools should not be combined

SPECIFIC LCOG QUESTIONS

6 *"Discuss your experience balancing private and public funding of public data services. What are the advantages and disadvantages of open data, and how can the value of open data be measured and funded?"*

Part C: How can the value of Open Data be measured and funded?

Answer: "Open data can combine data, visualization, analytics, and collaboration technology to enable governments and citizens to work together on real-world initiatives that tackle the most pressing issues in their communities."

ISSUE #1

Difference between

Revenue Generation

vs.

Cost Recovery?

ISSUE #2

Measuring and Funding

1. **Funding the Delivery of Data**
2. **Develop Price for Cost Recover or Revenue Generation**
   - a. Software Solutions
     - Subscription Based Solutions
     - Free Solutions
     - Based on Population
     - Number of Users
     - Flat Rate Partnership Fixed rate
   - b. GIS Services
     - Cost Structure
     - Hourly rates
     - Flat Rate
     - Service Level Agreements (See LOGIS Agreement)

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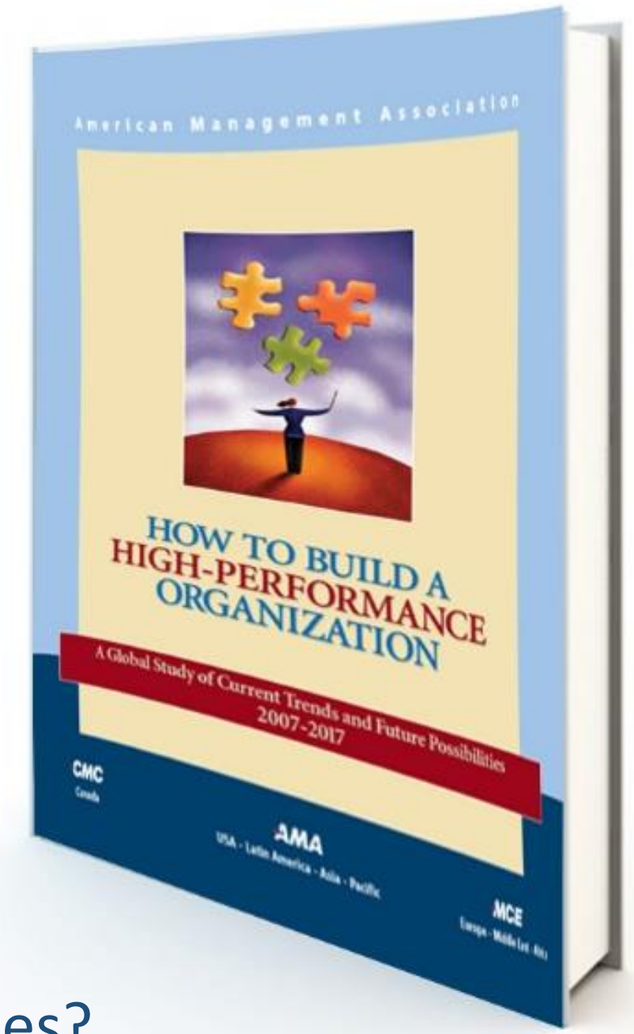
THE HIGH PERFORMANCE ORGANIZATION (HPO) FRAMEWORK

1. What is high performance for LCOG and RLID?
2. How would we know if we were high performing?
3. According to whom are we high performing?
4. Why do we need to be high performing?
5. Is what we are doing the right “what”?
6. How good are we at delivering our products and services?
7. How are we going to treat each other, our partners, customers, and other stakeholders?



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WHAT WE OFFER

State, National, and International Awards

A Local Government GIS Company

Exceptional References and Testimonials from Towns, Cities, and Counties

Technical Local Government GIS Expertise

Strategic Technology Partnerships

Information Technology (IT) and System Design Experience

Team Qualifications: Strategic Planning, Utilities, ArcGIS Online, & Systems Integration

Unique Strategic GIS Planning Methodology

The Business and ROI Case for GIS

Governance and GIS Management Models

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Team Qualifications: Strategic Planning, Utilities, ArcGIS Online, & Systems Integration

Unique Strategic GIS Planning Methodology

The Business and ROI Case for GIS

Governance and GIS Management Models

WHAT WE OFFER

State, National, and International Awards

A Local Government GIS Company

Exceptional References and Testimonials from Towns, Cities, and Counties

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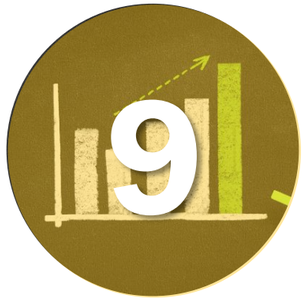

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QUESTIONS

Why is a Regional Model full of opportunities?
What can LCOG – RLID/CPP and this Interagency model offer the region?

Monday, January 8th, 2018
3:00pm to 4:00pm

LCOG LANE COUNCIL OF GOVERNMENTS

THANK YOU

An Award Winning and Nationally Recognized Model of Interagency Cooperation and GIS Achievement

GEOGRAPHIC TECHNOLOGIES GROUP®

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URISA 2016 Award Winner

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ArcGIS Online Specialty

ArcGIS for Local Government Specialty